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Data from Test Fisheries Conducted in the Northwest Territories, 1985-88

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Fisheries and Aquatic Sciences 756

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by

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ABSTRACT

McGowan, D.K. 1989. Data from test fisheries conducted in the Northwest Territories, 1985-88. Can. Data Rep. Fish. Aquat. Sci. 756: vi + 121 p.

A test fishery program was started in 1973 by the Department of Fisheries and Oceans, in cooperation with the Department of Renewable Resources, Government of the Northwest Territories, to facilitiate the development of new commercial fisheries in the Northwest Territories. Since then most test fisheries have been conducted by Department of Renewable Resources personnel with analysis by the Department of Fisheries and Oceans. This report summarizes the results of test fisheries, primarily for Arctic charr, conducted in the Northwest Territories, 1985-88.

Key words: experimental fishing; commercial fishing; gillnets; fishery management; size distribution; age composition; Arctic charr; Salvelinus alpinus; lake trout; Salvelinus namycush; lake whitefish; Coregonus clupeaformis.

RÉSUMÉ

McGowan, D.K. 1989. Data from test fisheries conducted in the Northwest Territories, 1985-88. Can. Data Rep. Fish. Aquat. Sci. 756: vi + 121 p.

Un programme expérimental sur les pêches a été mis sur pied en 1973 par le ministère des Pêches et Océans, en collaboration avec le ministère des Ressources renouvelables du gouvernement des Territoires du Nord-Ouest, afin d'encourager l'établissement de nouvelles installations commerciales de pêche dans les Territoires du Nord-Ouest. Depuis, la plupart des expériences ont été faites par le personnel du ministère des Ressources renouvelables, tandis que l'analyse a été effectuée par le ministère des Pêches et Océans. Le rapport résume les résultats de la pêche expérimentale portant principalement sur l'omble chevalier et qui s'est déroulée dans les Territoires du Nord-Ouest, au cours de la période 1985 à 1988.

Mots-clés: pêche expérimentale; pêche commerciale; fillets maillants; gestion des pêches; distribution des tailles; composition de l'âge; omble de chevalier; Salvelinus alpinus; touladi; Salvelinus namaycush; grand corégone; Coregonus clupeaformis.

INTRODUCTION

The Department of Fisheries and Oceans (DFO) initiated a test fishery program in 1973 in the Northwest Territories (Kristofferson and McGowan 1981; McGowan 1985). The program facilitates the development of new commercial fisheries for markets within and between communities. The information collected from the test fishery program helps determine the commercial feasibility and initial quota allocations on new fishing areas requested by community groups. The test fisheries are conducted mainly by Renewable Resource Officers of the Department of Renewable Resources, Government of the Northwest Territories (GNWT). This report summarizes the results of these test fisheries conducted in the Northwest Territories between 1985 and 1988.

TEST FISHERY PROGRAM

A detailed description of the test fishery program is provided by Kristofferson and McGowan (1981). The objective of a test fishery is to determine whether the resource is present in sufficient quantity to maintain a viable commercial fishery and to determine the status of the fish stock. Information can also be collected on other factors important to the long-term survival of the fishery. These factors include the timing of the fishery, transportation, storage and handling, and markets.

Most test fisheries are ongoing for a duration of at least five years, with a provisional quota harvested annually. Ideally, biological data are collected in the first and/or second years, and again in the fifth year to assess the effects of exploitation. Catch and effort data, as well as, harvest statistics from all fisheries (domestic, commercial, and sport) affecting the stock must be kept each year. If the stock assessment shows the body of water has a commercial potential, it is submitted for inclusion in Schedule V of the Northwest Territories Fishery Regulations. As with other commercial fisheries, the water body is then opened upon annual request through a Variation Notice for a specified time and quota.

MATERIALS AND METHODS

TEST FISHING

The test fishery procedure is described in Kristofferson and McGowan (1981). Requests were usually received by the Department's Area Offices (Inuvik, Iqualuit or Yellowknife) through a Renewable Resource Officer on behalf of interested community groups. Since 1987 requests are reviewed by the DFO Regional Review Committee (RRC) prior to the approval by the Regional Director General, Central and Arctic Region. The RRC consists of:

1) Section Head, Fish and Marine Mammal Management Section
2) Regional Director, Fisheries and Habitat Management Directorate
3) Director, Inspection Services Branch
4) Director, Program Coordination and Economics Directorate
5) Director General, Central and Arctic Region

The test fishery licence specifies main species of interest, provisional quota, type of fishing gear to be used, and the time of year the water body can be fished.

Biological samples were collected by Renewable Resource Officers or persons in charge upon request and when feasible. Data obtained included fork length, round weight (when possible) and sex. Sagittal otoliths were removed for age determination. Catch and effort data were also recorded.

DATA ANALYSES

Data were analyzed using computer facilities (Micro Vax II) based at DFO, Freshwater Institute, Winnipeg, MB. The Statistical Analysis System (1985) was used to generate length, weight, age, sex and maturity summaries.

A complete data analyses description is given by Kristofferson and McGowan (1981). Results, interpretations and recommendations on each fishery were returned to the Renewable Resource Officer or person in charge through the Department's Area Offices in the Northwest Territories.

Table 1 provides a summary of the test fisheries conducted between 1985-88. Only test fisheries that were actually attempted are listed. Arctic charr are the anadromous form unless otherwise indicated. A harvest of zero kilograms indicates the water body was tested without success. Results from Cockburn River, Harder River, Isortog River, Neergard Lake, Ravn River, Rowley River, Tarsuaq Arm River, Unnamed River (70-11N, 80-40W), Unnamed River (70-21N,78-24W), and Windless River can be found in Kroeker (1986). Results from Kuuk River (1986) can be found in Baker (1986). Results from Kuuk River and Kagluk Rivers (1987) can be found in Stewart and Sparling (1987). Results from Merle Harbour, Steep Bank Bay, Unnamed River (63-39N,90-33W) (Saqvaqjuac) and Unnamed Bay (63-34N,90-41W) (Kiniqsujuk)(1985 and 1986) can be found in Milani (1986). Results from Hornaday River (1986) can be found in MacDonell (1986). Results from Thomsen River (1986 and 1987) can be found in Sopuck (1987).

Bell Bay, Bell Bay Narrows, Berlinguet Inlet and Easter Sound (Arctic Bay area), were tested by DFO personnel in 1985 and are included in the report. DFO also took samples of Greenland halibut from Cumberland Sound (Pangnirtung area) in 1986 and 1987.

Results from the 1984 Burnside River test fishery were received in 1985 and are included in the report. A license was issued for Unnamed Bay (Kangiqsurjuk) in 1987, however fishing took

place in 1988. Results are included in the report.

Kagloryak River (presently on Schedule V) was sampled in 1985 with other rivers tested in Prince Albert Sound. The results are included in the report. Stanwell Fletcher Lake (presently on Schedule V) was sampled in 1988 and results are included in the report.

ACKNOWLEDGMENTS

The author wishes to thank Mr. R.B. Tinling (retired) and Mr. Len Colosimo, Supervisor, Resource Development, Department of Renewable Resources, Government of the Northwest Territories, all Renewable Resource Officers and all others who participated in these test fisheries.

The interpretations and recommendations on the test fisheries were provided by A.H. Kristofferson and M.M. Roberge.

Mr. G.W. Carder determined the ages of fish examined. Typing was provided by K. DeCaigny, B. Hyman and C. Catt. M.M Roberge reviewed the report and provided useful suggestions.

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KEY TO WATER BODIES SHOWN ON FIGURE 1

	Waterbody	Coordinates
1.	Magda River	71-39N, 84-37W
2.	Unnamed Lake (Ikikeesarjuk)	71-12N, 87-22W
3.	Jungersen River	71-23N, 84-37W
4.	Bell Bay (Narrows)	71-06N, 84-50W
5.	Berlinguet Inlet	71-06N, 86-07W
6.	Easter Sound	71-15N, 84-45W
7.	Unnamed Lake (Fox Charlie)	68-43N, 68-42W
8.	Brown River/Lake	63-57N, 94-16W
9.	Cross Bay Lakes	
	- Unnamed Lake (1)	63-47N, 93-32W
	- Unnamed Lake (2)	63-43N, 93-20W
	- Unnamed LAke (3)	63-46N, 93-15W
10.	Surrey Lake	69-43N, 105-55W
11.	Burnside River	66-50N, 108-10W
12.	Ashuna Lake	65-08N, 75-39W
13.	Thomsen River	65-28N, 85-16W
14.	Unnamed Lake	64-33N, 82-01W
15.	Unnamed Lake (Kikiktalik)	68-11N, 116-20W
16.	Unnamed Lake (Pasley Cove)	68-24N, 114-20W
17.	Nakyoktok River	68-37N, 110-52W
18.	Thlewiaza River System	60-28N, 94-45W
19.	Unnamed Lake (Iqalualuit)	63-29N, 65-05W
20.	Bovie Lake	60-11N, 122-56W
21.	Gjoa Haven general area	68-38N, 95-52W
22.	Back River	67-15N, 95-15W
23.	Kaleet River	67-37N, 97-45W
24-27.	Prince Albert Sound Areas	
	- Kagluk River (Prince Albert Sound)	70-13N, 112-58W
	- Kuuk River (Prince Albert Sound)	70-34N, 112-38W
	-Naloagyok (Prince Albert Sound)	70-15N, 112-20W
	- Kagloryak River(Prince Albert Sound)	70-17N, 111-30W
28.	Trout Lake	60-35N, 121-10W
29.	Ajaqutalik Lake	68-23N, 82-33W
30-39.	Steensby Inlet Areas	
	- Cockburn River	70-27N, 78-34W
	- Isortog River and Lake	70-07N, 76-30W
	- Neegard Lake	70-18N, 79-40W
	- Ravn River	70-30N, 79-50W
	- Rowley River	70-23N, 77-12W
	- Tarsuaq Arm River and Lake	70-35N, 78-55W
	- Unnamed River and Lake	70-21N, 78-24W
	- Unnamed River	70-11N, 80-40W
	- Harder River	70-30N, 79-23W
	- Windless River	70-06N, 77-38W
40.	Contwoyto Lake	65-36N, 110-39W
41.	Stewart Lake	64-22N, 125-18W
42.	Unnamed Lake (Anaktuayuit)	65-17N, 64-05W
43.	Unnamed Lake (Anguytutit)	65-05N, 63-42W
44.	Unnamed Lake (Qanayutuk)	65-21N, 67-32W
45.	Hornaday River	69-19N, 123-48W
46.	Curtis River	67-12N, 87-28W
47-50.	Chesterfield Inlet Areas	
	- Merle Harbour	63-42N, 91-24W
	- Steep Bank Bay	63-36N, 91-37W
	- Unnamed River (Saqvaqjuac)	63-39N, 90-33W
	- Unnamed Bay (Kingiqsujuk)	63-34N, 90-41W
51.	Tasirjuaq River	67-04N, 84-52W
52.	Ross Inlet	67-09N, 87-16W
53.	Netsilik Lake	69-15N, 93-05W
54.	Unnamed Lake (Kekektaktook)	69-15N, 93-17W
55.	Unnamed Lake (Read Island)	69-12N, 112-55W
56.	Cumberland Sound	65-30N, 66-30W
57.	Stanwell Fletcher Lake	72-38N, 94-41W

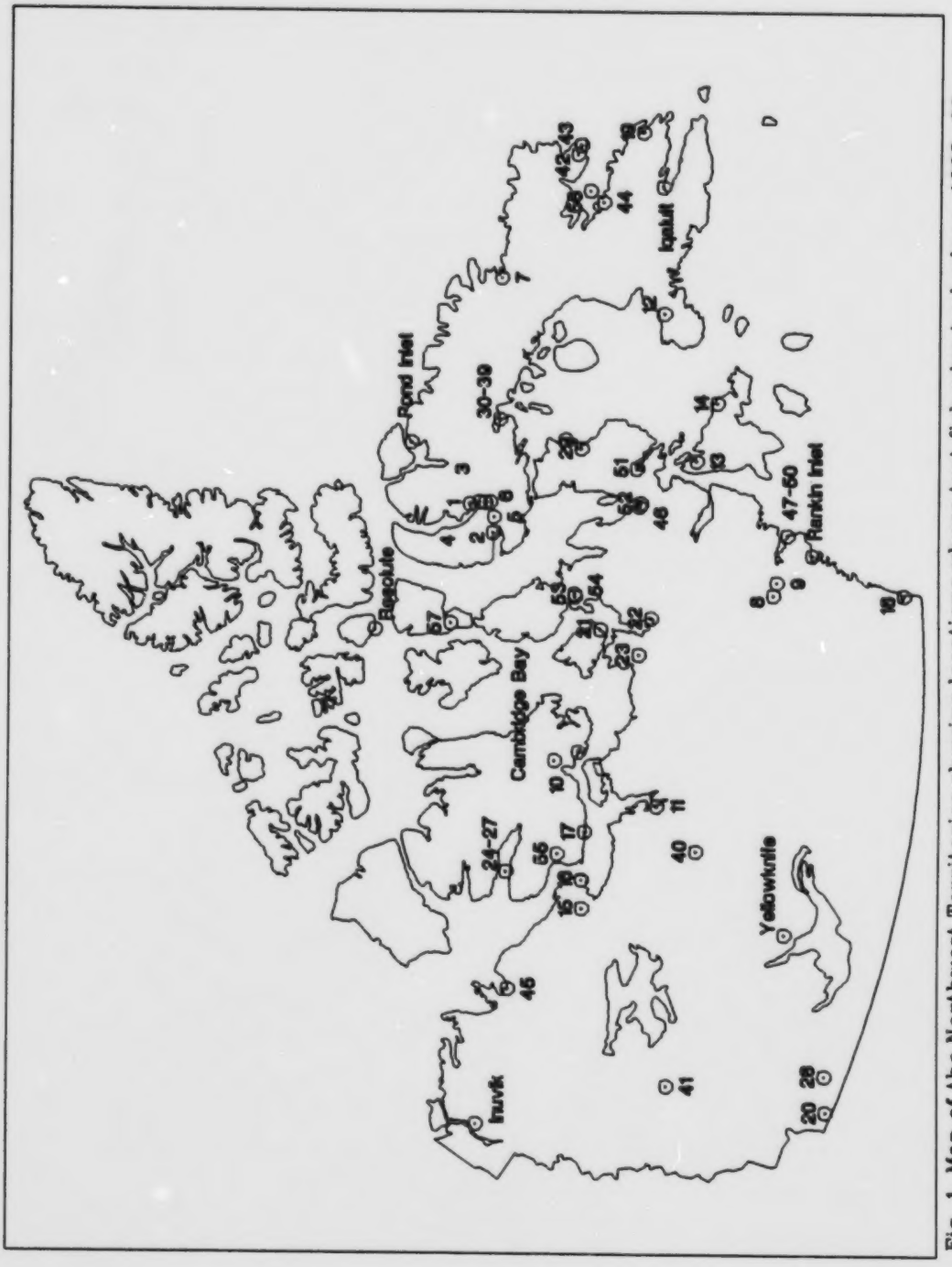

Fig. 1. Map of the Northwest Territories showing locations where test fisheries took place, 1985–88.

Table 1. Summary of test fisheries conducted in the Northwest Territories, 1985-88.

Water Body	Geographic Coordinates	Year	Permittee	Quota (kg)	Harvest (kg)	Number Sampled	Species
AREA:ARCTIC BAY							
Magda River	71-39N84-37W	1985	G Williams,RRO,Arctic Bay	2000	1414	0	Arctic charr
Magda River	71-39N84-37W	1987	G.Williams RRO,Arctic Bay,NWT	2000	1279	103	Arctic charr
Magda River	71-39N84-37W	1988	G.Williams,RRO,Arctic Bay,NWT	2000	2247	103	Arctic charr
Unnamed Lake (Ikikeesarjuk)	71-12N87-22W	1985	G Williams,RRO,Arctic Bay	1000	1003	101	Arctic charr
Unnamed Lake (Ikikeesarjuk)	71-12N87-22W	1987	G.Williams RRO,Arctic Bay,NWT	1000	974	99	Arctic charr
Unnamed Lake (Ikikeesarjuk)	71-12N87-22W	1988		NL	794	102	Arctic charr
Jungersen River	71-23N84-37W	1985	G Williams,RRO,Arctic Bay	680	0	0	Arctic charr
Jungersen River	71-23N84-37W	1987	G.Williams,RRO,Arctic Bay,NWT	1000	1104	103	Arctic charr
Jungersen River	71-23N84-37W	1988	G.Williams,RRO,Arctic Bay,NWT	1000	656	100	Arctic charr
Bell Bay	71-13N84-39W	1985	Tested by DFO	NA	0	12	Arctic charr
Bell Bay(Narrows)	71-06N84-50W	1985	Tested by DFO	NA	0	11	Arctic charr
Berlinguet Inlet	71-06N86-07W	1985	Tested by DFO	NA	0	7	Arctic charr
Easter Sound	71-15N84-45W	1985	Tested by DFO	NA	0	72	Arctic charr
AREA:BELCHER ISLANDS							
Belcher Islands general area	56-15N79-15W	1988	C.Takatak,HTA,Sanikiluaq,NWT	200	00	00	blue mussels
AREA:BROUGHTON ISLAND							
Unnamed Lake (Fox Charlie)	68-43N68-42W	1987	B.Dean,RRO,Broughton Island,NWT	500	410	96	Arctic charr
AREA:BAKER LAKE							
Brown River/Lake	63-57N94-16W	1988	R.Toews,RRO,Baker Lake,NWT	1000	1093	210	Arctic charr
Unnamed Lake (1) (Cross Bay)	63-47N93-32W	1988	R.Toews,RRO,Baker Lake,NWT	1000	0	0	Arctic charr
Unnamed Lake (2) (Cross Bay)	63-43N93-20W	1988	R.Toews,RRO,Baker Lake,NWT	1000	0	0	Arctic charr
Unnamed Lake (3) (Cross Bay)	63-46N93-15W	1988	R.Toews,RRO,Baker Lake,NWT	1000	0	0	Arctic charr
AREA:CAMBRIDGE BAY							
Surrey Lake	69-43N105-55W	1985	B Tarr,HTA,Cambridge Bay	1000	190	116	lake whitefish
Surrey Lake	69-43N105-55W	1985	B Tarr,HTA,Cambridge Bay	IC	164	77	lake trout
Surrey Lake	69-43N105-55W	1985	B Tarr,HTA,Cambridge Bay	IC	77	58	Arctic cisco
Unnamed Lake(Read Island)	69-12N112-55W	1988	K.Hickling,RRO,Coppermine,NWT	1000	1000	93	Arctic charr
Burnside River	66-50N108-10W	1984	G Pryznyk,FO,Yellowknife	100	136	40	Arctic charr
Burnside River	66-50N108-10W	1985	G Pryznyk,FO,Yellowknife	300	150	43	Arctic charr
Burnside River	66-50N108-10W	1986		NL	218	100	Arctic charr
Unnamed River/Lake	69-15N102-05W	1987	B.Tarr HTA,Cambridge Bay,NWT	1500	1250	99	Arctic charr
Unnamed River/Lake	69-15N102-05W	1988	B.Tarr,Manager,HTA,CambridgeBay,N	1500	1709	203	Arctic charr
AREA:CAPE DORSET							
Ashuna Lake	65-08N75-39W	1986	M Labine,RRO,Cape Dorset	1000	0	0	Arctic charr
AREA:CORAL HARBOUR							
Cleveland River Area	65-10N84-48W	1986	Netser & Sons Coral Harbour,NWT	7600	650		Arctic charr
Cleveland River Area	65-10N84-48W	1987	Netser & Sons Coral Harbour,NWT	6100	2000		Arctic charr
Thomsen River Area (Duke of York Bay)	65-28N85-16W	1986	Netser & Sons Coral Harbour,NWT	2300	453	102	Arctic charr
Thomsen River Area (Duke of York Bay)	65-28N85-16W	1987	Netser and Sons Ltd. Coral Harbou	2300	2300	100	Arctic charr
Unnamed Lake	64-33N82-01W	1988	R.Bourget,RRO,Coral Harbour,NWT	454	0	0	Arctic charr

Table 1. (cont'd).

Water Body	Geographic Coordinates	Year	Permittee	Quota (kg)	Harvest (kg)	Number Sampled	Species
AREA:COPPERMINE							
Unnamed Lake(Kikiktalik)	68-11N116-20W	1986	J.Stevenson,RRO,Coppermine,NWT	450	255	97	lake trout
Unnamed Lake(Kikiktalik)	68-11N116-20W	1987	J.Stevenson RRO,Coppermine,NWT	1000	860	320	lake trout
Unnamed Lake(Pasley Cove)	68-24N114-20W	1988	K.Hickling,RRO,Coppermine,NWT	500	0	0	Arctic charr
Nakyoktok River	68-37N110-52W	1987	J.Stevenson RRO,Coppermine,NWT	1000	406	140	Arctic charr
Nakyoktok River	68-37N110-52W	1988	K.Hickling,RRO,Coppermine,NWT	1500	1500	0	Arctic charr
Nakyoktok River	68-37N110-52W	1988	K.Hickling,RRO,Coppermine,NWT	IC	459	0	lake trout
AREA:ESKIMO POINT							
Thlewiaza River system	60-28N94-45W	1988	B.Kovic,RRO,Eskimo Point,NWT	2000	0	0	Arctic charr
AREA:IQALUIT							
Unnamed Lake (Iqaluaiuit)	63-29N65-05W	1987	S.Akeeagok,DFO,Iqaluit,NWT	900	225	104	Arctic charr
Unnamed Lake (Iqaluaiuit)	63-29N65-05W	1988	S.Akeeagok,DFO,Iqaluit,NWT	1400	1056	103	Arctic charr
AREA:FORT LIARD							
Bovie Lake	60-11N122-56W	1988	J.Woluk,RRO,Fort Liard,NWT	300	55	5	lake whitefish
AREA:GJOA HAVEN							
Gjoa Haven general area	68-38N95-52W	1985	C Dickie,AM,Gjoa Haven	1000	164	45	Arctic charr
Back River	67-15N95-15W	1987	K.Lambert RRO,Gjoa Haven,NWT	2000	1945	115	Arctic charr
Kaleet River	67-37N97-45W	1986	HTA,Pelly Bay,NWT	2000	179	100	cisco
Kaleet River	67-37N97-45W	1987	K.Lambert RRO,Gjoa Haven,NWT	500	466	110	cisco
AREA:HOLMAN							
Kagluk River(Prince Albert Sound)	70-13N112-58W	1985	R Barnes,FO,Inuvik	1000	168	56	Arctic charr
Kagluk River(Prince Albert Sound)	70-13N112-58W	1988	HTC, Holman,NWT	2000	1887	82	Arctic charr
Kuuk River(Prince Albert Sound)	70-34N112-38W	1985	R Barnes,FO,Inuvik	1000	414	101	Arctic charr
Kuuk River(Prince Albert Sound)	70-34N112-38W	1986	HTA,Holman,NWT	1000	299	98	Arctic charr
Kuuk River(Prince Albert Sound)	70-34N112-38W	1987	HTA,Holman,NWT	2000	1850	143	Arctic charr
Naloagyok River(Prince Albert Sound)	70-15N112-20W	1985	R Barnes,FO,Inuvik	1000	45	27	Arctic charr
Kagloryak River(Prince Albert Sound)	70-17N111-30W	1985	DFO,Inuvik	1000	48	33	Arctic charr
AREA:HAY RIVER							
Trout Lake	60-35N121-10W	1987	G.Bonnet RRO,Fort Liard,NWT		8	1	lake whitefish
Trout Lake	60-35N121-10W	1987	G.Bonnet RRO,Fort Liard,NWT	IC	0	2	burbot
Trout Lake	60-35N121-10W	1987	G.Bonnet RRO,Fort Liard,NWT		115	35	yellow walleye
Trout Lake	60-35N121-10W	1987	G.Bonnet RRO,Fort Liard,NWT	IC	0	29	northern pike
Trout Lake	60-35N121-10W	1987	G.Bonnet RRO,Fort Liard,NWT		671	106	lake trout
Trout Lake	60-35N121-10W	1987	G.Bonnet RRO,Fort Liard,NWT	IC	0	27	white sucker
Trout Lake	60-35N121-10W	1987	G.Bonnet RRO,Fort Liard,NWT	1500	794	0	LWF,trout,walleye

Table 1. (cont'd).

Water Body	Geographic Coordinates	Year	Permittee	Quota (kg)	Harvest (kg)	Number Sampled	Species
AREA:IGLOOLIK							
Ajaqutalik Lake	68-23N82-33W	1986	R.Hagen,RRO,Igloolik,NWT	1000	603	133	Arctic charr
Cockburn River	70-27N78-34W	1985	North South Consultants	1000	718	180	Arctic charr
Cockburn River	70-27N78-34W	1986	Igloolik Coop,Igloolik,NWT	1500	780	341	Arctic charr
Isortog River and Lake	70-07N76-30W	1985	North South Consultants	1500	1070	399	Arctic charr
Isortog River and Lake	70-07N76-30W	1986	Igloolik Coop,Igloolik,NWT	1500	1457	478	Arctic charr
Neergard Lake	70-18N79-40W	1985	North South Consultants	1500	1104	204	Arctic charr
Neergard Lake	70-18N79-40W	1986	North South Consultants	1500	0	0	Arctic charr
Ravn River	70-30N79-50W	1985	North South Consultants	1500	1168	498	Arctic charr
Ravn River	70-30N79-50W	1986	Igloolik Coop,Igloolik,NWT	1500	2325	597	Arctic charr
Rowley River	70-23N77-12W	1985	North South Consultants	1500	1064	346	Arctic charr
Rowley River	70-23N77-12W	1986	Igloolik Coop,Igloolik,NWT	1500	2000	589	Arctic charr
Tarsuaq Arm River and Lake	70-35N78-55W	1985	North South Consultants	1000	781	177	Arctic charr
Tarsuaq Arm River and Lake	70-35N78-55W	1986	Igloolik Coop,Igloolik,NWT	1000	1115	484	Arctic charr
Unnamed River and Lake	70-21N78-24W	1985	North South Consultants	1000	1096	341	Arctic charr
Unnamed River and Lake	70-21N78-24W	1986	Igloolik Coop,Igloolik,NWT	1000	1385	569	Arctic charr
Unnamed River	70-11N80-40W	1985	North South Consultants	1500	190	0	Arctic charr
Harder River	70-30N79-23W	1985	North South Consultants	1000	677	143	Arctic charr
Harder River	70-30N79-23W	1986	Igloolik Coop,Igloolik,NWT	1000	109	221	Arctic charr
Windless River	70-06N77-38W	1985	North South Consultants	1000	808	283	Arctic charr
Windless River	70-06N77-38W	1986	Igloolik Coop,Igloolik,NWT	1000	1232	322	Arctic charr
AREA:NORTHERN INLAND							
Contwoyto Lake	65-36N110-39W	1986	J.Stevenson RRO,Coppermine,NWT	450	164	56	lake trout
AREA:NORMAN WELLS							
Stewart Lake	64-22N125-18W	1987	K.Stevenson RRO,Norman Wells,NWT	200	48	35	lake whitefish
Stewart Lake	64-22N125-18W	1987	K.Stevenson RRO,Norman Wells,NWT	200	255	61	lake trout
Stewart Lake	64-22N125-18W	1987	K.Stevenson RRO,Norman Wells,NWT	IC	18	4	northern pike
AREA:PELLY BAY							
Sports River "Tourist"	68-40N90-30W	1988	J.LaRose,RRO,Spence BAy,NWT	1000	0	0	Arctic charr
AREA:PANGNIRTUNG							
Kipisa Lake	66-33N67-57W	1989	D.Purchase,RRO,Pangnirtung,NWT	2400	690		Arctic charr
Unnamed Lake (Ikpit)	65-26N67-38W	1989	D.Purchase,RRO,Pangnirtung,NWT	1000	6	2	Arctic charr
Unnamed Lake (Anaktuayuit)	65-17N64-05W	1987	M.Hoppe RRO,Pangnirtung,NWT	900	401	100	Arctic charr
Unnamed Lake (Anguyatutit)	65-05N63-42W	1987	M.Hoppe RRO,Pangnirtung,NWT	900	281	100	Arctic charr
Cumberland Sound Area	65-30N66-30W	1985	L Simpson,DEDT,Frobisher Bay	2300	450	0	cod
Cumberland Sound Area	65-30N66-30W	1985	L Simpson,DEDT,Frobisher Bay	2300		106	Green. halibut
Cumberland Sound Area	65-30N66-30W	1986	L Simpson,DEDT,Frobisher Bay	2300		230	Green. halibut
Unnamed Lake (Qanayutuk)	65-21N67-32W	1989	D.Purchase,RRO,Pangnirtung,NWT	1000	121	41	Arctic charr

Table 1. (cont'd).

Water Body	Geographic Coordinates	Year	Permittee	Quota (kg)	Harvest (kg)	Number Sampled	Species
AREA:POND INLET							
Mala River	72-57N80-56W	1985	R Popko,RRO,Pond Inlet	450	0	0	Arctic charr
Unnamed Lake(Eskimo Inlet)	72-06N79-25W	1985	R Popko,RRO,Pond Inlet	454	0	5	Arctic charr
Unnamed Lake(White Bay)	72-10N79-27W	1985	R Popko,RRO,Pond Inlet	454	0	2	Arctic charr
Eclipse Sound	72-41N77-58W	1985	R Popko,RRO,Pond Inlet	500	0	1	halibut
Unnamed Lake(Ikpiarjuk)	72-37N76-50W	1985	R Popko,RRO,Pond Inlet	450	0	0	Arctic charr
AREA:PAULATUK							
Hornaday River	69-19N123-48W	1986	HTA,Paulatuk,NWT	6800	1457	114	Arctic charr
AREA:RANKIN INLET							
Curtis River (Committee Bay)	67-12N87-28W	1986	J.Shavigatta,RRO,Repulse Bay,NWT	2300	852	106	Arctic charr
Curtis River (Committee Bay)	67-12N87-28W	1987	J.Shavigatta,RRO,Repulse Bay,NWT	2500	1300	488	Arctic charr
Merle Harbour	63-42N91-24W	1985	Keewatin Environmental Con Servic	1000	196	49	Arctic charr
Merle Harbour	63-42N91-24W	1986	Fishermen's Assoc.,Chesterfield	1000	539	150	Arctic charr
Steep Bank Bay	63-36N91-37W	1985	Keewatin Environmental Con Servic	1000	808	107	Arctic charr
Steep Bank Bay	63-36N91-37W	1986	Fishermen's Assoc.,Chesterfield	1000	768	134	Arctic charr
Unnamed River(Saqvaqjuac)	63-39N90-33W	1985	Keewatin Environmental Con Servic	1000	279	18	Arctic charr
Unnamed River(Saqvaqjuac)	63-39N90-33W	1986	Fishermen's Assoc.,Chesterfield	1000	813	125	Arctic charr
Unnamed Bay(Kangiqsurjuk)	63-34N90-41W	1985	Keewatin Environmental Con Servic	1000	339	22	Arctic charr
Unnamed Bay(Kangiqsurjuk)	63-34N90-41W	1986	Fishermen's Assoc.,Chesterfield	1000	674	125	Arctic charr
Unnamed Bay(Kangiqsurjuk)	63-34N90-41W	1988		NL	236	83	Arctic charr
AREA:REPULSE BAY							
Tasirjuaq River	67-04N84-52W	1986	J.Shavigatta,RRO,Repulse Bay,NWT	2300	2237	105	Arctic charr
Tasirjuaq River	67-04N84-52W	1987	J.Shavigatta,RRO,Repulse Bay,NWT	2500	1250	532	Arctic charr
Ross Inlet	67-09N87-16W	1986	J.Shavigatta,RRO,Repulse Bay,NWT	2300	249	88	Arctic charr
Ross Inlet	67-09N87-16W	1987	J.Shavigatta,RRO,Repulse Bay,NWT	2500	1300	455	Arctic charr
Stanwell Fletcher Lake	72-38N94-41W	1988	Variation Notice	6800	310	99	Arctic charr
AREA:SPENCE BAY							
Netsilik Lake	69-15N93-05W	1985	L Jones,RRO,Spence Bay	2000	500	0	lake whitefish
Netsilik Lake	69-15N93-05W	1986	HTA,Spence Bay,NWT	2000	150	0	lake whitefish
Stanley River	70-15N92-30W	1986	D.Workman,RRO,Spence Bay,NWT	1000	0	8	Arctic charr
Unnamed Lake	69-06N94-05W	1988	J.LaRose,RRO,Spence BAy,NWT	500	0	0	LL Arctic charr
Unnamed Lake (Kekektaktook)	69-15N93-17W	1988	J.LaRose,RRO,Spence BAy,NWT	500	164	141	LL Arctic charr
Unnamed Lake (Kekektaktook)	69-15N93-17W	1988	J.LaRose,RRO,Spence BAy,NWT	IC	164	87	lake trout
Unnamed Lake (Kekektaktook)	69-15N93-17W	1988	J.LaRose,RRO,Spence BAy,NWT	IC	2	2	lake whitefish

RRO = Renewable Resource Officer, Department of Renewable Resources, GNWT
FO = Fishery Officer,DFO
HTA = Hunters and Trappers Association
DEDT = Department of Economic Development and Tourism, GNWT
AM = Area Manager, GNWT
NA = Not applicable, tested by DFO
NL = No licence issued
IC = Incidental catch

Table 2. Test fishery results for Arctic charr from Magda River (Arctic Bay area), 23 October 1987.

PRODUCTION

Quota	Harvest
2 000 kg	approx. 1 279 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
414	139	20-25	33.56	296.1	N/A

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male	59	-2.8951	2.2799	1.8118-2.7480	0.79
Female	44	-1.6887	1.8397	1.3377-2.3417	0.75
Total	103	-2.8204	2.2503	1.9324-2.5682	0.81

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
13-16	24	0.55	0.97	0.62	0.38

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.
N/A = Not Available.

Table 3. Biological data by age group for Arctic charr taken from Magda River (Arctic Bay area), 23 October 1987.

AGE (YR)	MALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	% FEMALE
9	-	-	-	-	-	-	-	1	3	500	-	1500	-	1.20	1	1	500	-	1500	-	1.20	-
10	3	6	620	20	2867	153	1.20	4	11	580	16	2400	183	1.23	7	8	597	27	2600	294	1.22	57
11	16	33	616	39	3075	488	1.34	12	32	611	39	2825	249	1.26	28	33	614	39	2968	416	1.31	43
12	15	31	671	47	3637	808	1.19	10	27	604	32	2800	386	1.28	25	29	644	53	3302	782	1.23	40
13	7	14	639	22	3157	395	1.20	7	19	631	20	2779	231	1.10	14	16	635	21	2968	368	1.15	50
14	6	12	646	38	3050	575	1.12	2	5	630	71	3000	849	1.19	8	9	642	43	3038	583	1.14	25
16	1	2	730	-	3800	-	0.98	1	3	650	-	3000	-	1.09	2	2	690	57	3400	566	1.03	50
18	1	2	730	-	5100	-	1.31	-	-	-	-	-	-	-	1	1	730	-	5100	-	1.31	-
TOTAL	49							37							86							
MEAN			645	47	3299	683	1.23			609	39	2742	391	1.22			629	47	3059	637	1.23	43
MEAN AGE		11.8								11.8							12.0					

Table 4. Biological data by length interval for Arctic charr taken from Magda River (Arctic Bay area), 23 October 1987.

LENGTH INTERVAL (MM)	MALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	% FEMALE
500	1	2	540	2900	-	1.84	3	7	517	2467	850	1.76	4	4	523	2575	727	1.78	75
550	5	8	579	2860	680	1.49	11	25	579	2364	191	1.22	16	16	579	2519	452	1.30	69
600	23	39	622	2870	279	1.19	21	48	620	2795	248	1.17	44	43	621	2834	264	1.18	48
650	22	37	669	3466	373	1.16	9	20	659	3239	278	1.13	31	30	666	3400	359	1.15	29
700	7	12	721	4457	663	1.18	-	-	-	-	-	-	7	7	721	4457	663	1.18	-
750	1	2	780	6400	-	1.35	-	-	-	-	-	-	1	1	780	6400	-	1.35	-
TOTAL	59						44						103						
MEAN			649	3340	766	1.22			611	2756	424	1.21			633	3090	703	1.22	43

Table 5. Test fishery results for Arctic charr from Magda River (Arctic Bay area), 11-12 November 1988.

PRODUCTION

Quota	Harvest
2000 kg	est. 2247 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
645	139	20	102.4	151	527

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male	55	-5.2638	3.1222	2.7991-3.4453	0.94
Female	48	-4.7486	2.9418	2.6353-3.2483	0.94
Total	103	-4.8999	2.9947	2.8024-3.1870	0.95

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
14-16	19	0.77	1.00	0.54	0.46

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.

Table 6. Biological data by age group for Arctic charr taken from Magda River (Arctic Bay area), 11-12 November 1988.

AGE (YR)	MALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	% FEMALE
9	1	2	600	-	2450	-	1.13	1	3	540	-	2000	-	1.27	2	3	570	42	2225	318	1.20	50
10	3	7	592	64	2567	808	1.22	5	15	574	21	2320	271	1.22	8	11	581	39	2413	495	1.22	63
11	3	7	625	26	2983	454	1.22	5	15	648	30	3520	683	1.28	8	11	639	29	3319	635	1.26	63
12	9	21	655	26	3411	542	1.21	10	30	617	21	2820	352	1.20	19	25	635	30	3100	534	1.21	53
13	12	28	715	43	4671	1063	1.26	7	21	623	27	2914	421	1.20	19	25	681	59	4024	1228	1.24	37
14	7	16	714	40	4686	1021	1.27	4	12	649	29	3563	613	1.30	11	14	690	48	4277	1029	1.28	36
15	5	12	716	46	4290	886	1.16	1	3	730	-	4600	-	1.18	6	8	718	41	4342	803	1.16	17
16	2	5	665	78	3575	1450	1.18	-	-	-	-	-	-	-	2	3	665	78	3575	1450	1.18	-
19	1	2	570	-	2200	-	1.19	-	-	-	-	-	-	-	1	1	570	-	2200	-	1.19	-
TOTAL	43							33							76							
MEAN			679	59	3941	1148	1.23			621	41	2989	669	1.23			654	59	3528	1074	1.23	43
MEAN AGE		13.0								12.0							12.6					

Table 7. Biological data by length interval for Arctic charr taken from Magda River (Arctic Bay area), 11-12 November 1988.

LENGTH INTERVAL (MM)	MALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	% FEMALE
500	-	-	-	-	-	-	1	2	540	2000	-	1.27	1	1	540	2000	-	1.27	-
550	4	7	569	2225	189	1.21	13	27	575	2358	181	1.24	17	17	574	2326	186	1.23	76
600	10	18	626	2940	328	1.20	22	46	622	2923	262	1.21	32	31	623	2928	279	1.21	69
650	22	40	675	3670	382	1.19	9	19	669	3756	404	1.26	31	30	673	3695	384	1.21	29
700	13	24	726	4719	621	1.23	3	6	713	4467	416	1.23	16	16	724	4672	585	1.23	19
750	6	11	764	5692	128	1.28	-	-	-	-	-	-	6	6	764	5692	128	1.28	-
TOTAL	55						48						103						
MEAN			680	3901	1040	1.21			622	3003	677	1.23			653	3483	993	1.22	47

Table 8. Test fishery results for Arctic charr from an Unnamed Lake (71-12N,87-22W)(Ikikeesarjuk)(Arctic Bay area), 14-15 December 1985.

PRODUCTION

Quota	Harvest
1 000 kg	1003 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
327	139	25	48.5	160	491

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male	54	-5.0273	3.0229	2.7099-3.3359	0.94
Female	47	-5.9475	3.3527	3.0981-3.6073	0.97
Total	101	-5.3715	3.1460	2.9478-3.3442	0.95

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
13-15	35	0.66	0.98	0.48	0.52

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.

Table 9. Biological data by age group for Arctic charr taken from Unnamed Lake (71-12N,87-22W)(Ikikeesarjuk)(Arctic Bay area), 14-15 December 1985.

AGE (YR)	MALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	% FEMALE
10	1	2	605	-	2350	-	1.06	1	2	625	-	2550	-	1.04	2	2	615	14	2450	141	1.05	50
11	3	7	623	18	2683	289	1.11	4	10	594	17	2250	334	1.07	7	8	606	22	2436	370	1.08	57
12	13	28	647	53	3068	930	1.11	10	24	628	35	2720	637	1.08	23	26	638	46	2917	818	1.10	43
13	17	37	640	31	2856	453	1.08	11	27	639	45	2909	632	1.10	28	32	640	36	2877	520	1.09	39
14	8	17	694	36	3763	625	1.12	11	27	636	48	2941	847	1.12	19	22	660	51	3287	851	1.12	58
15	2	4	740	57	4550	1556	1.10	4	10	711	34	4100	712	1.13	6	7	721	40	4250	918	1.12	67
17	2	4	685	21	3700	283	1.15	-	-	-	-	-	-	-	2	2	685	21	3700	283	1.15	-
TOTAL	46							41							87							
MEAN			656	47	3162	809	1.10			638	47	2915	784	1.10			647	48	3045	802	1.10	47
MEAN AGE	13.0									13.0							13.0					

Table 10. Biological data by length interval for Arctic charr taken from Unnamed Lake (71-12N,87-22W)(Ikikeesarjuk) (Arctic Bay area), 14-15 December 1985.

LENGTH INTERVAL (MM)	MALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	% FEMALE
550	3	6	578	2083	161	1.08	11	23	584	2141	183	1.08	14	14	583	2129	174	1.08	79
600	23	43	625	2669	288	1.09	17	36	622	2571	244	1.07	40	40	624	2627	272	1.08	43
650	14	26	672	3407	283	1.12	15	32	665	3387	319	1.15	29	29	668	3397	297	1.14	52
700	12	22	719	3917	407	1.05	2	4	720	4025	106	1.08	14	14	719	3932	378	1.06	14
750	2	4	773	5600	71	1.22	2	4	758	5100	0	1.17	4	4	765	5350	292	1.19	50
TOTAL	54						47						101						
MEAN			661	3214	792	1.09			636	2900	761	1.10			650	3068	790	1.10	47

Table 11. Test fishery results for Arctic charr from Unnamed Lake (71-12N,87-22W)(Ikikeesarjuk)(Arctic Bay area), 25 May 1988.

PRODUCTION

Quota	Harvest
1000 kg	est. 974 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
290	139	25	57.6	121.8	409.1

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b\ (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male	36	-4.8656	2.9547	2.6752-3.2342	0.94
Female	63	-5.9836	3.3491	2.8857-3.8125	0.93
Total	99	-5.2374	3.0850	2.8729-3.2971	0.95

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
- NO AGES -					

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.

Table 12. Biological data by length interval for Arctic charr taken from Unnamed Lake (71-12N,87-22W)(Ikikeesarjuk) (Arctic Bay area), 25 May 1988.

LENGTH INTERVAL (MM)	MALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	% FEMALE
550	1	2	580	2100	-	1.08	1	3	580	1800	-	0.92	2	2	580	1950	212	1.00	50
600	6	10	637	2592	220	1.00	12	33	630	2467	217	0.98	18	18	633	2508	220	0.99	67
650	21	33	672	3126	348	1.03	14	39	661	2907	275	1.01	35	35	668	3039	335	1.02	40
700	19	30	719	3711	298	1.00	8	22	708	3681	231	1.04	27	27	716	3702	276	1.01	30
750	15	24	761	4490	314	1.02	1	3	750	4350	-	1.03	16	16	760	4481	305	1.02	6
800	1	2	800	5500	-	1.07	-	-	-	-	-	-	1	1	800	5500	-	1.07	-
TOTAL	63						36						99						
MEAN			705	3598	745	1.02			661	2942	592	1.00			689	3359	760	1.01	36

Table 13. Test fishery results for Arctic charr from Unnamed Lake (71-12N,87-22W)(Ikikeesarjuk)(Arctic Bay area), 8-9 December 1988.

PRODUCTION

Quota	Harvest
1000 kg	est. 794 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE[1]	CPE[2]
174	139	25	20.1	207.8	948.0

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male	34	-5.1371	3.0694	2.4744-3.6644	0.88
Female	68	-5.1208	3.0611	2.8171-3.3051	0.95
Total	101	-4.9862	3.0149	2.8022-3.2276	0.94

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
17-20	25	0.68	1.00	0.4934	0.5166

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.

Table 14. Biological data by age group for Arctic charr taken from Unnamed Lake (71-12N,87-22W)(Ikikeesarjuk)(Arctic Bay area), 8-9 December 1988.

AGE (YR)	MALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	% FEMALE
12	1	4	690	-	3900	-	1.19	-	-	-	-	-	-	-	1	1	690	-	3900	-	1.19	-
13	2	8	675	21	3650	71	1.19	4	8	715	37	4425	768	1.20	6	8	702	37	4167	717	1.20	67
14	2	8	685	49	3800	990	1.17	2	4	650	57	3050	1061	1.09	4	5	668	48	3425	943	1.13	50
15	5	20	738	79	4840	1454	1.19	14	28	732	45	4536	863	1.15	19	25	734	53	4616	1013	1.16	74
16	4	16	700	50	3875	1063	1.11	16	32	761	64	4988	1300	1.11	20	27	749	65	4765	1312	1.11	80
17	4	16	683	25	3850	592	1.21	8	16	784	70	5538	1722	1.12	12	16	750	76	4975	1635	1.15	67
18	4	16	678	29	3625	395	1.16	4	8	798	51	5900	1494	1.14	8	11	738	75	4763	1582	1.15	50
19	2	8	745	49	4750	1202	1.13	-	-	-	-	-	-	-	2	3	745	49	4750	1202	1.13	-
20	-	-	-	-	-	-	-	2	4	745	21	4850	354	1.17	2	3	745	21	4850	354	1.17	-
21	1	4	680	-	3800	-	1.21	-	-	-	-	-	-	-	1	1	680	-	3800	-	1.21	-
TOTAL	25							50							75							
MEAN			700	50	4068	945	1.17			751	62	4894	1297	1.13			734	62	4619	1248	1.14	67
MEAN AGE	16.2									15.9							16.0					

Table 15. Biological data by length interval for Arctic char takem from Unnamed Lake (71-12N,87-22W)(Ikikeesarjuk) (Arctic Bay area), 8-9 December 1988.

LENGTH INTERVAL (MM)	MALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	% FEMALE
600	2	6	635	3150	212	1.23	1	1	610	2300	-	1.01	3	3	627	2867	513	1.16	33
650	20	59	672	3410	409	1.12	7	10	673	3600	173	1.18	27	26	672	3459	369	1.14	26
700	8	24	716	4450	389	1.21	26	38	721	4162	448	1.11	34	33	720	4229	447	1.13	76
750	3	9	763	5233	321	1.18	19	28	765	5168	387	1.15	22	22	765	5177	373	1.16	86
800	-	-	-	-	-	-	10	15	809	6270	576	1.18	10	10	809	6270	576	1.18	-
850	1	3	870	7100	-	1.08	4	6	863	7125	556	1.11	5	5	864	7120	482	1.10	80
900	-	-	-	-	-	-	1	1	900	7500	-	1.03	1	1	900	7500	-	1.03	-
TOTAL	34						68						102						
MEAN			694	3909	928	1.15			751	4891	1167	1.14			732	4564	1184	1.14	67

Table 16. Test fishery results for Arctic charr from Jungersen River (Arctic Bay area), 12-14 November 1987.

PRODUCTION

Quota	Harvest
1 000 kg	approx. 1 103.6 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
310	139	25	58.98	126.1	N/A

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male	47	-5.1587	3.0891	2.8514-3.3268	0.97
Female	56	-4.9203	3.0073	2.7148-3.2998	0.94
Total	103	-4.9216	3.0067	2.8438-3.1696	0.96

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
13-17	30	0.49	0.97	0.39	0.61

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.
N/A = Not Available.

Table 17. Biological data by age group for Arctic charr taken from Jungersen River (Arctic Bay area), 12-14 November 1987.

AGE (YR)	MALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	% FEMALE
7	-	-	-	-	-	-	-	1	2	450	-	1000	-	1.10	1	1	450	-	1000	-	1.10	-
8	2	5	533	67	1975	813	1.27	1	2	525	-	1850	-	1.28	3	4	530	48	1933	580	1.27	33
9	1	3	620	-	2900	-	1.22	1	2	565	-	1900	-	1.05	2	2	593	39	2400	707	1.14	50
10	1	3	595	-	2750	-	1.31	2	5	593	60	2275	35	1.13	3	4	593	43	2433	275	1.19	67
11	8	20	684	29	4025	583	1.25	15	34	609	36	2907	462	1.28	23	27	635	49	3296	735	1.27	65
12	9	23	669	46	3867	910	1.27	13	30	612	28	2912	508	1.26	22	26	635	45	3302	833	1.26	59
13	7	18	688	50	4100	1125	1.23	6	14	623	38	3217	695	1.31	13	15	658	54	3692	1022	1.27	46
14	6	15	688	57	4083	1153	1.22	2	5	730	7	4950	141	1.27	8	10	698	52	4300	1055	1.24	25
15	2	5	778	18	5650	636	1.20	1	2	710	-	4650	-	1.30	3	4	755	41	5317	732	1.23	33
16	-	-	-	-	-	-	-	2	5	735	21	5200	495	1.31	2	2	735	21	5200	495	1.31	-
17	3	8	797	68	6217	2485	1.18	-	-	-	-	-	-	-	3	4	797	68	6217	2485	1.18	-
18	1	3	805	-	6950	-	1.33	-	-	-	-	-	-	-	1	1	805	-	6950	-	1.33	-
TOTAL	40							44							84							
MEAN			687	71	4168	1393	1.24			618	58	3068	923	1.26			651	73	3592	1288	1.25	52
MEAN AGE	11.8									11.8							12.2					

Table 18. Biological data by length interval for Arctic charr taken from Jungersen River (Arctic Bay area), 12-14 November 1987.

LENGTH INTERVAL (MM)	MALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	% FEMALE
450	1	2	485	1400	-	1.23	1	2	450	1000	-	1.10	2	2	468	1200	283	1.16	50
500	-	-	-	-	-	-	1	2	525	1850	-	1.28	1	1	525	1850	-	1.28	-
550	3	6	590	2533	225	1.23	16	29	576	2447	297	1.28	19	18	578	2461	284	1.27	84
600	6	13	625	3075	445	1.25	26	46	620	3017	335	1.27	32	31	621	3028	351	1.26	81
650	20	43	672	3813	465	1.25	6	11	665	3717	387	1.27	26	25	670	3790	443	1.25	23
700	8	17	721	4481	501	1.20	5	9	725	4680	406	1.23	13	13	722	4558	460	1.21	38
750	6	13	768	5658	320	1.25	1	2	750	5550	-	1.32	7	7	765	5643	295	1.26	14
800	2	4	813	7050	141	1.31	-	-	-	-	-	-	2	2	813	7050	141	1.31	-
850	1	2	850	8100	-	1.32	-	-	-	-	-	-	1	1	850	8100	-	1.32	-
TOTAL	47						56						103						
MEAN			687	4164	1311	1.25			619	3066	844	1.26			650	3567	1209	1.26	54

Table 19. Test fishery results for Arctic charr from the Jungersen River (Arctic Bay area), 22-23 November 1988.

PRODUCTION

Quota	Harvest
1000 kg	est. 656 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
153	139	20	43.89	83.5	357.8

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b\ (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male	55	-4.5619	2.8777	2.6612-3.0942	0.96
Female	44	-5.6375	3.2638	2.9047-3.6229	0.94
Total	100	-4.7200	2.9357	2.7574-3.1140	0.96

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
16-19	18	0.52	0.98	0.4055	0.5945

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.

Table 20. Biological data by age group for Arctic charr taken from Jungersen River (Arctic Bay area), 22-23 November 1988.

AGE (YR)	MALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	% FEMALE
9	2	5	500	85	1550	636	1.22	1	3	510	-	1600	-	1.21	3	4	503	60	1567	451	1.21	33
10	1	2	480	-	1200	-	1.09	-	-	-	-	-	-	-	1	1	480	-	1200	-	1.09	-
11	2	5	573	67	2350	919	1.22	-	-	-	-	-	-	-	2	3	573	67	2350	919	1.22	-
12	2	5	585	21	2450	212	1.22	4	13	654	46	3650	528	1.31	6	8	631	51	3250	748	1.28	67
13	13	31	703	70	4677	1451	1.31	7	23	646	19	3350	797	1.23	20	28	683	64	4213	1397	1.28	35
14	4	10	659	59	3888	1019	1.34	6	20	639	36	3300	685	1.25	10	14	647	44	3535	836	1.28	60
15	4	10	733	87	4663	2134	1.11	5	17	673	50	4040	782	1.31	9	13	699	71	4317	1457	1.22	56
16	5	12	765	82	5460	1175	1.22	5	17	674	68	4120	1315	1.31	10	14	720	86	4790	1371	1.26	50
17	2	5	693	67	4100	1273	1.21	-	-	-	-	-	-	-	2	3	693	67	4100	1273	1.21	-
18	1	2	690	-	4200	-	1.28	-	-	-	-	-	-	-	1	1	690	-	4200	-	1.28	-
19	3	7	777	58	5683	625	1.22	2	7	750	28	5775	672	1.37	5	7	766	46	5720	557	1.28	40
20	2	5	825	14	6075	1591	1.08	-	-	-	-	-	-	-	2	3	825	14	6075	1591	1.08	-
23	1	2	785	-	6000	-	1.24	-	-	-	-	-	-	-	1	1	785	-	6000	-	1.24	-
TOTAL	42							30							72							
MEAN			694	101	4376	1693	1.24			657	55	3727	1068	1.28			679	86	4106	1492	1.26	42
MEAN AGE	14.5									14.2							14.4					

Table 21. Biological data by length interval for Arctic charr taken from Jungersen River (Arctic Bay area), 22-23 November 1988.

LENGTH INTERVAL (MM)	MALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	% FEMALE
400	1	2	440	1100	-	1.29	-	-	-	-	-	-	1	1	440	1100	-	1.29	-
450	1	2	480	1200	-	1.09	-	-	-	-	-	-	1	1	480	1200	-	1.09	-
500	1	2	525	1700	-	1.17	1	2	510	1600	-	1.21	2	2	518	1650	71	1.19	50
550	4	7	578	2413	375	1.25	3	7	588	2467	257	1.21	7	7	582	2436	305	1.23	43
600	7	13	616	2986	301	1.28	14	32	623	3004	446	1.24	21	21	620	2998	396	1.25	67
650	10	18	673	3830	685	1.25	10	23	668	3970	321	1.34	20	20	670	3900	525	1.29	50
700	10	18	726	4970	324	1.30	13	30	720	4958	447	1.32	24	24	722	4942	396	1.31	57
750	13	24	778	6031	551	1.28	3	7	770	5800	1143	1.26	16	16	777	5988	653	1.27	19
800	5	9	830	6040	1102	1.06	-	-	-	-	-	-	5	5	830	6040	1102	1.06	-
850	3	5	863	6933	153	1.08	-	-	-	-	-	-	3	3	863	6933	153	1.08	-
TOTAL	55						44						100						
MEAN			707	4581	1638	1.24			667	3923	1149	1.29			690	4290	1464	1.26	44

Table 22. Test fishery results for Arctic charr from Bell Bay (Arctic Bay area), 17 August 1985.

PRODUCTION

Quota	Harvest
Tested by DFO	18.8

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
12	89	N/A	7.31	39.4	61.6

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male					
Female					
		DRESSED WEIGHTS			
Total					

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
14-18	6	0.23	1.00	0.20	0.80

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.
N/A = Not Available.

Table 23. Biological data by age group for Arctic charr taken from Bell Bay area (Arctic Bay area), 17 August 1985.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	ROUND WEIGHT(G) MEAN	ROUND WEIGHT(G) SD
10	1	10	430	-	700	-
11	1	10	423	-	550	-
13	2	20	526	10.6	1300	71
14	2	20	539	65.8	1300	495
15	2	20	649	22.6	2700	566
16	1	10	574	-	1850	-
18	1	10	549	-	1250	-
TOTAL	10					
MEAN			540	79.0	1495	770
MEAN AGE	13.9					

Table 24. Biological data by length interval for Arctic charr taken from Bell Bay area (Arctic Bay area), 17 August 1985.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
400	2	17	427	625	106
450	1	8	492	950	-
500	3	25	533	1283	58
550	3	25	575	1800	132
600	2	17	639	2100	283
650	1	8	665	3100	-
TOTAL	12				
MEAN			551	1563	714

Table 25. Test fishery results for Arctic charr from Bell Bay (Narrows)(Arctic Bay area), 17-19 August 1985.

PRODUCTION

Quota	Harvest
Tested by DFO	38.9

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
11	139	N/A	35.81	7.4	26.0

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male	8	0.0912	1.2219	-	0.23
Female	3	-6.4653	3.5202	-	0.99
Total	11	-6.2211	3.4357	-	0.94

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
Sample too small					

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.
N/A = Not Available.

Table 26. Biological data by age group for Arctic charr taken from Bell Bay (Narrows)(Arctic Bay area), 17-19 August 1985.

AGE (YR)	MALES N	MALES LENGTH(MM) MEAN	MALES LENGTH(MM) SD	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES LENGTH(MM) SD	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED LENGTH(MM) SD	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
15	-	-	-	-	-	-	-	1	474	-	900	-	0.85	100	1	474	-	900	-	0.85	100
17	1	688	-	3300	-	1.01	100	-	-	-	-	-	-	-	1	688	-	3300	-	1.01	100
18	2	697	12	3600	495	1.06	100	-	-	-	-	-	-	-	2	697	12	3600	495	1.06	100
20	1	705	-	4100	-	1.17	100	-	-	-	-	-	-	-	1	705	-	4100	-	1.17	100
25	1	686	-	4050	-	1.25	100	1	715	-	4000	-	1.09	100	2	701	21	4025	35	1.17	100
TOTAL	5							2							7						
MEAN		694	10	3730	419	1.11			595	170	2450	2192	0.97			666	85	3364	1144	1.07	
MEAN AGE		19.6							20.0							19.7					

Table 27. Biological data by length interval for Arctic charr taken from Bell Bay (Narrows)(Arctic Bay area), 17-19 August 1985.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH(MM) MEAN	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
450	-	-	-	-	-	-	1	474	900	-	0.85	100	1	474	900	-	0.85	100
650	3	687	3533	448	1.09	100	-	-	-	-	-	-	3	687	3533	448	1.09	100
700	4	713	3763	650	1.04	100	2	714	3800	283	1.05	100	6	713	3775	519	1.05	100
750	1	752	4700	-	1.11	100	-	-	-	-	-	-	1	752	4700	-	1.11	100
TOTAL	8						3						11					
MEAN		708	3794	621	1.07			634	2833	1686	0.98			688	3532	1020	1.04	

Table 28. Test fishery results for Arctic charr from Berlinguet Inlet (Arctic Bay area), 19-23 August 1985.

PRODUCTION

Quota	Harvest
Tested by DFO	11.7 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
7	139	N/A	19.29	8.7	14.6

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male	1				
Female	5	Sample too small			
Total	7				

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
Sample too small					

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.
N/A = Not Available.

Table 29. Biological data by age group for Arctic charr taken from Berlinguet Inlet (Arctic Bay area), 19-23 August 1985.

AGE (YR)	MALES N	MALES LENGTH(MM) MEAN	MALES LENGTH(MM) SD	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES LENGTH(MM) SD	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED LENGTH(MM) SD	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
8	-	-	-	-	-	-	-	1	271	-	200	-	1.00	0	1	271	-	200	-	1.00	0
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	357	-	600	-	1.32	-
11	-	-	-	-	-	-	-	1	390	-	600	-	1.01	0	1	390	-	600	-	1.01	0
12	-	-	-	-	-	-	-	1	465	-	1150	-	1.14	0	1	465	-	1150	-	1.14	0
14	-	-	-	-	-	-	-	1	601	-	2500	-	1.15	100	1	601	-	2500	-	1.15	100
18	1	648	-	2750	-	1.01	100	1	680	-	3900	-	1.24	100	2	664	23	3325	813	1.13	100
TOTAL	1							5							7						
MEAN		648	-	2750	-	1.01			481	163	1670	1520	1.11			487	158	1671	1387	1.13	
MEAN AGE	18.0							12.6							12.9						

Table 30. Biological data by length interval for Arctic charr taken from Berlinguet Inlet (Arctic Bay area), 19-23 August 1985.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH(MM) MEAN	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
250	-	-	-	-	-	-	1	271	200	-	1.00	0	1	271	200	-	1.00	0
350	-	-	-	-	-	-	1	390	600	-	1.01	0	2	374	600	0	1.17	0
450	-	-	-	-	-	-	1	465	1150	-	1.14	0	1	465	1150	-	1.14	0
600	1	648	2750	-	1.01	100	1	601	2500	-	1.15	100	2	625	2625	177	1.08	100
650	-	-	-	-	-	-	1	680	3900	-	1.24	100	1	680	3900	-	1.24	100
TOTAL	1						5						7					
MEAN		648	2750	-	1.01			481	1670	1520	1.11			487	1671	1387	1.13	

Table 31. Test fishery results for Arctic charr from Easter Sound (Arctic Bay area), 23-24 August 1985.

PRODUCTION

Quota	Harvest
Tested by DFO	246.0

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
72	139	N/A	5.49	314.6	1075.5

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male	38	-4.5072	2.8494	-	0.95
Female	34	-4.1929	2.7338	-	0.95
Total	72	-4.4687	2.8342	-	0.95

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
17-22	24	0.31	0.89	0.27	0.73

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.
N/A = Not Available.

Table 32. Biological data by age group for Arctic charr taken from Easter Sound (Arctic Bay area), 23-24 August 1985.

AGE (YR)	MALES N	MALES LENGTH(MM) MEAN	MALES LENGTH(MM) SD	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES LENGTH(MM) SD	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED LENGTH(MM) SD	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
11	-	-	-	-	-	-	-	1	591	-	2850	-	1.38	100	1	591	-	2850	-	1.38	100
12	1	695	-	4300	-	1.28	100	1	525	-	1950	-	1.35	100	2	610	120	3125	1662	1.31	100
13	-	-	-	-	-	-	-	1	588	-	2550	-	1.25	100	1	588	-	2550	-	1.25	100
14	2	561	16	2000	141	1.14	100	-	-	-	-	-	-	-	2	561	16	2000	141	1.14	100
15	9	660	72	3483	1142	1.17	100	4	612	25	2513	193	1.10	100	13	645	65	3185	1047	1.15	100
16	1	754	-	5150	-	1.20	100	5	633	51	2960	610	1.16	100	6	653	67	3325	1047	1.17	100
17	7	665	36	3679	757	1.24	100	4	612	20	2738	528	1.18	100	11	646	40	3336	808	1.22	100
18	1	647	-	3200	-	1.18	100	4	576	16	2175	119	1.14	100	5	590	35	2380	470	1.15	100
19	6	698	44	3983	877	1.15	100	1	611	-	2800	-	1.23	100	7	685	52	3814	917	1.16	100
22	1	759	-	5300	-	1.21	100	-	-	-	-	-	-	-	1	759	-	5300	-	1.21	100
TOTAL	28							21							49						
MEAN		670	62	3677	1048	1.19			604	38	2602	473	1.18			641	62	3216	1000	1.18	
MEAN AGE		16.6							16.0							16.3					

Table 33. Biological data by length interval for Arctic charr taken from Easter Sound (Arctic Bay area), 23-24 August 1985.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH(MM) MEAN	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
500	2	547	2025	106	1.24	100	2	529	1775	247	1.20	100	4	538	1900	212	1.22	100
550	3	573	2183	247	1.16	100	13	579	2300	297	1.18	100	16	578	2278	284	1.18	100
600	8	634	3000	381	1.17	100	9	624	2867	325	1.18	100	17	629	2929	348	1.18	100
650	8	682	3731	425	1.17	100	5	678	3470	182	1.12	100	13	681	3631	366	1.15	100
700	12	724	4471	582	1.18	100	2	735	4225	318	1.07	100	14	726	4436	550	1.16	100
750	3	760	5317	176	1.21	100	3	776	5300	1182	1.13	100	6	768	5308	756	1.17	100
800	2	815	5450	71	1.01	100	-	-	-	-	-	-	2	815	5450	71	1.01	100
TOTAL	38						34						72					
MEAN		683	3814	1081	1.17			629	2969	1022	1.16			657	3415	1129	1.17	

Table 34. Test fishery results for Arctic charr from Unnamed Lake (68-43N, 68-42W)(FoxCharlie)(Broughton Island area), 13-18 January 1988

PRODUCTION

Quota	Harvest
500 kg	409.7 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
103	139	25-50	134.65	18.4	73.0

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b\ (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male	59	-2.7827	2.2524	1.8065-2.6983	0.80
Female	36	-1.3108	1.7094	1.1756-2.2432	0.75
Total	96	-3.1898	2.3914	2.0862-2.6966	0.85

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
17-20	21	0.57	0.98	0.43	0.57

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.

Table 35. Biological data by age group for Arctic charr taken from Unnamed Lake (68-43N,68-42W)(Fox Charlie)(Broughton Island area), 13-18 January 1988.

AGE (YR)	MALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	% FEMALE
11	-	-	-	-	-	-	-	1	3	590	-	2497	-	1.22	1	2	590	-	2497	-	1.22	-
12	1	3	637	-	3500	-	1.35	1	3	585	-	2724	-	1.36	2	3	611	37	3112	549	1.36	50
13	1	3	585	-	2724	-	1.36	5	17	580	39	2598	481	1.32	6	10	581	35	2619	433	1.33	83
14	7	22	646	37	3309	473	1.23	6	21	600	30	2677	260	1.25	13	21	625	40	3017	498	1.24	46
15	3	9	687	55	3632	601	1.17	-	-	-	-	-	-	-	3	5	687	55	3632	601	1.17	-
16	7	22	658	51	3869	826	1.36	7	24	619	64	2913	660	1.24	14	23	639	59	3391	873	1.30	50
17	1	3	725	-	5500	-	1.44	6	21	632	46	3159	576	1.24	7	11	645	55	3493	1029	1.27	86
18	7	22	705	28	4188	657	1.19	1	3	600	-	3047	-	1.41	8	13	692	45	4045	730	1.22	13
19	4	13	690	56	4229	827	1.28	1	3	720	-	3064	-	0.82	5	8	696	50	3996	886	1.19	20
20	-	-	-	-	-	-	-	1	3	635	-	3178	-	1.24	1	2	635	-	3178	-	1.24	-
22	1	3	790	-	6016	-	1.22	-	-	-	-	-	-	-	1	2	790	-	6016	-	1.22	-
TOTAL	32							29							61							
MEAN			675	52	3910	863	1.26			612	49	2859	499	1.25			645	60	3410	883	1.26	48
MEAN AGE		15.3								15.3							15.8					

Table 36. Biological data by length group for Arctic charr taken from Unnamed Lake (68-43N,68-42W)(Fox Charlie)(Broughton Island area), 13-18 January 1988.

LENGTH INTERVAL (MM)	MALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	% FEMALE
500	1	2	530	2724	-	1.83	1	3	530	2043	-	1.37	2	2	530	2384	482	1.60	50
550	3	5	578	2610	114	1.35	12	33	573	2450	224	1.30	15	16	574	2482	214	1.31	80
600	12	20	636	3403	536	1.32	15	42	621	3111	336	1.30	28	29	628	3247	444	1.31	56
650	22	37	674	3814	353	1.25	6	17	665	3318	528	1.12	28	29	672	3708	438	1.22	21
700	17	29	719	4783	646	1.29	2	6	725	3065	1	0.80	19	20	719	4602	815	1.23	11
750	4	7	765	4710	1167	1.04	-	-	-	-	-	-	4	4	765	4710	1167	1.04	-
TOTAL	59						36						96						
MEAN			678	3991	846	1.27			616	2893	492	1.25			654	3573	900	1.26	38

Table 37. Test fishery results for Arctic charr from Brown River (Baker Lake area), 9-25 September 1988.

PRODUCTION

Quota	Harvest
1 000 kg	1 093 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
410	139	-	462.21	21	56.8

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male	82	-5.9246	3.3642	2.7249-4.0035	0.96
Female	114	-5.1514	3.0860	2.4298-3.7422	0.93
Total	210	- 5.5792	3.2404	2.8103-3.6705	0.94

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
11-14	50	0.97	0.99	0.62	0.38

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.

Table 38. Biological data by age group for Arctic charr taken from Brown River (Baker Lake area), 9-25 September 1988.

AGE (YR)	MALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	% FEMALE
7	1	2	350	-	450	-	1.05	-	-	-	-	-	-	-	1	1	350	-	450	-	1.05	-
8	4	6	524	24	1650	265	1.14	3	3	568	25	1933	275	1.06	7	4	543	32	1771	288	1.11	43
9	6	10	602	30	2408	334	1.10	17	19	524	60	2565	4019	1.58	24	15	544	62	2481	3363	1.43	74
10	29	46	604	35	2452	589	1.10	44	49	588	25	2301	369	1.12	74	47	594	30	2357	469	1.11	60
11	14	22	650	47	3361	991	1.19	19	21	606	35	2587	448	1.15	34	22	625	45	2903	805	1.17	58
12	6	10	634	34	3067	943	1.17	5	6	598	42	2480	422	1.19	11	7	618	41	2800	781	1.18	45
13	1	2	735	-	5400	-	1.36	1	1	638	-	2100	-	0.81	2	1	687	69	3750	2333	1.08	50
14	1	2	785	-	4900	-	1.01	1	1	651	-	2750	-	1.00	2	1	718	95	3825	1520	1.00	50
15	1	2	745	-	5650	-	1.37	-	-	-	-	-	-	-	1	1	745	-	5650	-	1.37	-
TOTAL	63							90							156							
MEAN			615	65	2762	1039	1.13			581	47	2412	1746	1.21			595	57	2546	1490	1.18	59
MEAN AGE		10.3								10.1							10.2					

Table 39. Biological data by length interval for Arctic charr taken from Brown River (Baker Lake area), 9-25 September 1988.

LENGTH INTERVAL (MM)	MALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	% FEMALE
350	1	1	350	450	-	1.05	-	-	-	-	-	-	1	0	350	450	-	1.05	-
400	-	-	-	-	-	-	4	3	430	788	125	0.99	4	2	430	788	125	0.99	-
450	-	-	-	-	-	-	3	3	478	1083	58	0.99	3	1	478	1083	58	0.99	-
500	8	10	528	1575	185	1.07	9	8	533	1761	399	1.16	18	8	531	1664	315	1.11	53
550	22	27	576	2093	226	1.09	52	45	576	2433	2212	1.28	79	37	576	2323	1800	1.22	70
600	34	41	625	2675	255	1.10	41	36	619	2650	362	1.12	79	37	622	2689	350	1.12	55
650	10	12	672	3705	618	1.22	6	5	668	3000	298	1.01	19	9	671	3484	623	1.15	38
700	7	8	722	5021	453	1.33	-	-	-	-	-	-	8	4	722	5038	422	1.34	-
750	1	1	785	4900	-	1.01	-	-	-	-	-	-	1	0	785	4900	-	1.01	-
TOTAL	83						115						212						
MEAN			615	2737	1012	1.13			585	2395	1569	1.18			599	2567	1354	1.16	58

Table 40. Test fishery results for lake whitefish from Surrey Lake (Cambridge Bay area), 9-11 August 1985.

PRODUCTION

Quota	Harvest
1 000 kg	N/A

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
116	139 & 114	N/A	N/A	N/A	N/A

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male					
Female					
Total	116	-2.5468	2.1343	-	0.77

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)

No age structures taken

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.
N/A = Not Available.

Table 41. Biological data by length interval for lake whitefish taken from Surrey Lake (Cambridge Bay area), 9-11 August 1985.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	ROUND WEIGHT(G) MEAN	SD	K
460	7	6	460	1457	137	1.50
470	7	6	470	1450	41	1.40
480	13	11	480	1477	70	1.34
490	18	16	490	1533	77	1.30
500	27	23	500	1620	117	1.30
510	14	12	510	1729	112	1.30
520	22	19	520	1777	117	1.26
530	4	3	530	1888	246	1.27
540	2	2	540	2150	0	1.37
550	2	2	550	2050	424	1.23
TOTAL	116					
MEAN			500	1639	189	1.31

Table 42. Test fishery results for lake trout from Surry Lake (Cambridge Bay area), 9-11 August 1985.

PRODUCTION

Quota	Harvest
Incidental Catch	N/A

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
77	139 & 114	N/A	N/A	N/A	N/A

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male					
Female					
Total	77	-3.1042	2.3239	-	0.86

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)

No age structures taken

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.
N/A = Not Available.

Table 43. Biological data by length interval for lake trout taken from Surrey Lake (Cambridge Bay area), 9-11 August 1985.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	ROUND WEIGHT(G) MEAN	ROUND WEIGHT(G) SD	K
400	2	3	410	2050	354	3.01
425	1	1	430	900	-	1.13
450	1	1	470	1100	-	1.06
475	5	6	487	1300	187	1.13
500	20	26	509	1605	309	1.22
525	11	14	535	1609	138	1.05
550	13	17	559	1669	338	0.95
575	4	5	588	2075	150	1.02
600	1	1	610	1900	-	0.84
625	3	4	630	2667	58	1.07
650	3	4	653	3200	1015	1.14
700	4	5	708	3550	850	1.00
750	4	5	763	4250	624	0.96
800	2	3	800	5450	71	1.06
825	1	1	840	5400	-	0.91
900	1	1	910	-	-	-
975	1	1	980	-	-	-
TOTAL	77					
MEAN			578	2125	1100	1.13

Table 44. Test fishery results for Arctic cisco from Surrey Lake (Cambridge Bay area), 9-11 August 1985.

PRODUCTION

Quota	Harvest
Incidental Catch	N/A

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
58	139 & 114	N/A	N/A	N/A	N/A

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male					
Female					
Total	58	-4.0275	2.6731	-	0.88

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)

No age structures taken

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.
N/A = Not Available.

Table 45. Biological data by length interval for Arctic cisco taken from Surrey Lake (Cambridge Bay area), 9-11 August 1985.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	ROUND WEIGHT(G) MEAN	ROUND WEIGHT(G) SD	K
410	2	3	410	1000	141	1.45
430	3	5	430	983	29	1.24
440	5	9	440	1020	45	1.20
450	7	12	450	1186	24	1.30
460	11	19	460	1200	84	1.23
470	8	14	470	1331	100	1.28
480	7	12	480	1443	190	1.30
490	2	3	490	1450	212	1.23
500	4	7	500	1675	150	1.34
510	5	9	510	1530	45	1.15
520	1	2	520	2000	-	1.42
530	1	2	530	2100	-	1.41
560	2	3	560	1850	354	1.05
TOTAL	58					
MEAN			471	1334	278	1.26

Table 46. Test fishery results for Arctic charr from Unnamed Lake (69-12N, 112-55W)(Read Island)(Cambridge Bay area), October-November, 1988.

PRODUCTION

Quota	Harvest
1 000 kg	1 000 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE[1]	CPE[2]
---------- Not Available ----------					

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male					
Female					
Total	93	-3.5606	2.5119	2.2158-2.8080	0.87

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
13-16	18	0.72	0.97	0.51	0.49

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.

Table 47. Biological data by age group for Arctic charr taken from Unnamed Lake (69-12N,112-55W)(Read Island) (Cambridge Bay area), October - November, 1988.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	ROUND WEIGHT(G) MEAN	ROUND WEIGHT(G) SD
10	1	1	570	-	2300	-
11	12	18	584	37	2471	453
12	8	12	607	33	2800	587
13	26	39	648	56	3304	789
14	11	16	677	50	3727	844
15	5	7	690	43	3650	815
16	1	1	720	-	4100	-
17	1	1	700	-	3000	-
18	1	1	730	-	3700	-
21	1	1	740	-	4500	-
TOTAL	67					
MEAN			643	60	3206	832
MEAN AGE	13.1					

Table 48. Biological data by length interval for Arctic charr taken from Unnamed Lake (69-12N,112-55W) (Read Island)(Cambridge Bay area), October - November, 1988.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	ROUND WEIGHT(G) MEAN	ROUND WEIGHT(G) SD	K
500	5	5	532	1900	200	1.26
550	16	17	578	2381	177	1.24
600	22	24	622	2955	479	1.23
650	29	31	664	3388	353	1.16
700	19	20	719	4124	803	1.10
750	2	2	765	5150	212	1.15
TOTAL	93					
MEAN			646	3220	846	1.18

Table 49. Test fishery results for Arctic charr from Burnside River (Cambridge Bay area), August, 1984.

PRODUCTION

Quota	Harvest
100 kg	136 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
40	139	N/A	N/A	N/A	N/A

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male					
Female					
Total	40	-2.0459	1.9437	1.5119-2.3755	0.83

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
N/A	N/A	N/A	N/A	N/A	N/A

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.
N/A = Not Available.

Table 50. Biological data by length interval for Arctic charr taken from Burnside River (Cambridge Bay area), August, 1984.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	ROUND WEIGHT(G) MEAN	ROUND WEIGHT(G) SD	K
500	1	3	533	3175	-	2.10
550	3	8	584	1965	131	0.98
600	6	15	629	2041	497	0.82
650	7	18	671	3024	310	1.01
700	8	20	727	3487	241	0.91
750	4	10	781	3686	114	0.78
800	6	15	821	4347	223	0.78
850	1	3	889	5670	-	0.81
900	1	3	902	5443	-	0.74
950	3	8	974	5292	1048	0.58
TOTAL	40					
MEAN			733	3466	1129	0.88

Table 51. Test fishery results for Arctic charr from Burnside River (Cambridge Bay area), August, 1985.

PRODUCTION

Quota	Harvest
300 kg	150 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE[1]	CPE[2]
40	139	N/A	N/A	N/A	N/A

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male					
Female					
Total	43	-3.7547	2.5373	2.1262-2.9484	0.89

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
N/A	N/A	N/A	N/A	N/A	N/A

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.
N/A = Not Available.

Table 52. Biological data by length interval for Arctic charr taken from Burnside River (Cambridge Bay area), August, 1985.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	ROUND WEIGHT(G) MEAN	ROUND WEIGHT(G) SD	K
550	4	9	575	1644	387	0.87
600	4	9	638	2268	371	0.87
650	11	26	674	2804	675	0.92
700	7	16	731	3467	387	0.88
750	7	16	783	3888	332	0.81
800	3	7	821	4462	347	0.81
850	2	5	877	5443	0	0.81
900	1	2	902	5443	-	0.74
950	4	9	978	6294	285	0.67
TOTAL	43					
MEAN			742	3555	1370	0.85

Table 53. Test fishery results for Arctic charr, Burnside River (Cambridge Bay area), 26-30 June 1986.

PRODUCTION

Quota	Harvest
No permit issued	218.1 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
100	139	N/A	N/A	N/A	N/A

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male					
Female					
Total	100	-6.8118	3.6266	3.3964-3.8568	0.95

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
N/A	N/A	N/A	N/A	N/A	N/A

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.
N/A = Not Available.

Table 54. Biological data by length interval for Arctic charr taken from Burnside River (Cambridge Bay area), 26-30 June 1986.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	ROUND WEIGHT(G) MEAN	ROUND WEIGHT(G) SD	K
400	4	4	439	454	0	0.54
450	12	12	479	964	171	0.87
500	1	1	533	1361	-	0.90
550	19	19	586	1564	225	0.78
600	38	38	633	2232	371	0.88
650	18	18	670	2936	482	0.97
700	3	3	715	3402	680	0.93
750	4	4	765	4536	0	1.01
800	1	1	813	4763	-	0.89
TOTAL	100					
MEAN			613	2152	966	0.87

Table 55. Test fishery results for Arctic charr from Unnamed Lake (69-15N, 102-05W)(Cambridge Bay area), 26 August to 2 September 1987.

PRODUCTION

Quota	Harvest
1 500 kg	approx. 1 250 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE[1]	CPE[2]
Not available					

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male					
Female	Dressed weights				
Total					

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
17-23	23	0.43	0.98	0.35	0.65

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.

Table 56. Biological data by age group for Arctic charr taken from Unnamed Lake (69-15N,102-05W) (Cambridge Bay area), 26 August to 2 September 1987.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
13	3	4	620	53	2083	666
14	7	10	629	78	1943	715
15	28	41	631	53	2116	564
16	8	12	646	34	2206	272
17	9	13	653	42	2261	558
18	7	10	632	36	2100	308
19	3	4	631	74	2150	779
20	3	4	707	37	2767	723
23	1	1	738	-	2800	-
TOTAL	69					
MEAN			640	53	2164	548
MEAN AGE	16.0					

Table 57. Biological data by length interval for Arctic charr taken from Unnamed lake (69-15N 102_05W)(Cambridge Bay area), 26 August to 2 September 1987.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
500	4	4	532	1163	103
550	17	17	577	1491	228
600	30	30	630	2092	282
650	39	39	675	2497	259
700	8	8	713	2756	94
750	1	1	750	3600	-
TOTAL	99				
MEAN			643	2180	523

Table 58. Test fishery results for Arctic charr from Unnamed Lake (69-15N, 102-05W)(Cambridge Bay), 26 August to 3 September 1988.

PRODUCTION

Quota	Harvest
1 500 kg	1 709 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
705	139	24	34.29	493	1 195

All figures approximate

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male	54	-4.3456	2.7950	2.5185-3.0715	0.94
Female	46	-3.4439	2.4729	2.0255-2.9203	0.86
Total	100	-4.0207	2.6797	2.6797-2.9011	0.93

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
17-22	89	0.50	0.97	0.39	0.61

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.

Table 59. Biological data by age group for Arctic charr taken from Unnamed Lake (69-15N,102-05W)(Cambridge Bay area), 26 August to 3 September 1988.

AGE (YR)	MALES N	MALES LENGTH(MM) MEAN	MALES LENGTH(MM) SD	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES LENGTH(MM) SD	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED LENGTH(MM) SD	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
13	1	574	-	2450	-	1.30	100	-	-	-	-	-	-	-	1	574	-	2450	-	1.30	100
14	3	512	20	1650	218	1.22	100	3	555	51	2217	643	1.27	100	6	534	42	1933	530	1.25	100
15	3	593	58	2667	701	1.26	100	4	572	13	2463	214	1.32	100	7	581	36	2550	445	1.29	100
16	5	634	37	3310	723	1.29	100	6	599	33	2492	312	1.17	100	11	615	38	2864	664	1.22	100
17	6	626	37	3058	600	1.23	100	9	578	42	2506	576	1.28	100	15	597	46	2727	630	1.26	100
18	13	634	51	3004	562	1.18	100	1	558	-	2300	-	1.32	100	14	629	53	2954	572	1.19	100
19	7	620	29	3086	466	1.28	100	4	601	33	2650	434	1.22	100	11	613	31	2927	485	1.26	100
20	2	632	55	2725	318	1.09	100	1	582	-	2500	-	1.27	100	3	615	49	2650	260	1.15	100
22	1	678	-	3800	-	1.22	100	-	-	-	-	-	-	-	1	678	-	3800	-	1.22	100
24	1	612	-	2350	-	1.03	100	-	-	-	-	-	-	-	1	612	-	2350	-	1.03	100
TOTAL	42							28							70						
MEAN		618	51	2918	658	1.22			582	36	2479	432	1.25			604	49	2742	614	1.23	
MEAN AGE	17.5							16.6							17.1						

Table 60. Biological data by length interval for Arctic charr taken from Unnamed Lake (69-15N,102-05W)(Cambridge Bay area), 26 August to 3 September 1988.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH(MM) MEAN	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
450	2	496	1475	35	1.21	100	-	-	-	-	-	-	2	496	1475	35	1.21	100
500	5	526	1760	178	1.21	100	6	534	1967	229	1.29	100	11	530	1873	225	1.25	100
550	14	580	2407	141	1.23	100	24	576	2408	163	1.26	100	38	578	2408	153	1.25	100
600	19	623	3003	328	1.24	100	14	614	2939	211	1.27	100	33	619	2976	282	1.25	100
650	13	670	3608	434	1.20	100	2	655	2925	813	1.04	100	15	668	3517	516	1.18	100
700	1	742	3500	-	0.86	100	-	-	-	-	-	-	1	742	3500	-	0.86	100
TOTAL	54						46						100					
MEAN		612	2831	692	1.22			586	2535	395	1.26			600	2695	591	1.23	

Table 61. Test fishery results for lake trout from an Unnamed Lake (68-11N,116-20W)(Kikiktalik)(Coppermine area), 16-20 October 1986.

PRODUCTION

Quota	Harvest
450 kg	254.9 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE[1]	CPE[2]
97	139	20	235.9	9.7	25.5

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male	33	-0.4349	1.0672	0.2505-1.8839	0.44
Female	64	-3.1189	2.3690	1.9925-2.7455	0.85
Total	97	-2.7438	2.2295	1.8823-2.5767	0.80

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
19-26	31	0.23	0.96	0.21	0.79

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.

Table 62. Biological data by age group for lake trout taken from an Unnamed Lake (68-11N,116-20W)(Kikiktalik)(Coppermine area), 16-20 October 1986.

AGE (YR)	MALES N	MALES LENGTH(MM) MEAN	MALES LENGTH(MM) SD	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES LENGTH(MM) SD	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED LENGTH(MM) SD	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
15	1	530	-	2150	-	1.44	0	1	570	-	2650	-	1.43	100	2	550	28	2400	354	1.44	50
16	2	545	35	2375	530	1.45	50	3	545	18	2333	153	1.44	100	5	545	22	2350	287	1.45	80
17	3	553	32	2383	325	1.43	67	3	552	20	2283	284	1.36	67	6	553	24	2333	279	1.39	67
18	2	595	21	2725	35	1.30	100	6	585	58	2933	461	1.50	83	8	588	49	2881	402	1.45	88
19	1	590	-	2150	-	1.05	0	4	568	13	2538	350	1.38	100	5	572	15	2460	349	1.32	80
20	5	558	13	2400	406	1.38	80	5	559	17	2520	228	1.44	80	10	559	14	2460	317	1.41	80
21	-	-	-	-	-	-	-	4	619	88	3650	1516	1.55	100	4	619	88	3650	1516	1.55	100
22	3	587	15	2583	362	1.28	100	3	573	3	2517	275	1.33	100	6	580	12	2550	290	1.31	100
23	1	590	-	2500	-	1.22	100	-	-	-	-	-	-	-	1	590	-	2500	-	1.22	100
26	2	545	21	2075	177	1.28	0	2	550	0	2200	141	1.32	100	4	548	13	2138	149	1.30	50
37	-	-	-	-	-	-	-	1	930	-	9950	-	1.24	100	1	930	-	9950	-	1.24	100
TOTAL	20							32							52						
MEAN		565	26	2403	333	1.34			583	77	2917	1456	1.43			576	63	2719	1180	1.39	
MEAN AGE	19.9							19.9							19.8						

Table 63. Biological data by length interval for lake trout taken from an Unnamed Lake (68-11N,116-20W)(Kikiktalik) (Coppermine area), 16-20 October 1986.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH(MM) MEAN	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
475	-	-	-	-	-	-	1	480	1700	-	1.54	100	1	480	1700	-	1.54	100
500	2	510	2075	106	1.57	50	1	520	2000	-	1.42	0	3	513	2050	87	1.52	33
525	8	536	2244	274	1.46	50	8	537	2463	327	1.59	63	16	537	2353	313	1.52	56
550	10	563	2380	339	1.33	70	28	565	2468	231	1.36	100	38	565	2445	262	1.36	92
575	9	586	2494	308	1.24	89	17	581	2685	267	1.37	100	26	583	2619	291	1.33	96
600	3	607	2467	208	1.10	67	4	603	2725	250	1.25	100	7	604	2614	254	1.19	86
625	1	640	2550	-	0.97	0	1	625	5650	-	2.31	100	2	633	4100	2192	1.64	50
675	-	-	-	-	-	-	1	690	3600	-	1.10	100	1	690	3600	-	1.10	100
725	-	-	-	-	-	-	2	740	4200	283	1.04	100	2	740	4200	283	1.04	100
925	-	-	-	-	-	-	1	930	9950	-	1.24	100	1	930	9950	-	1.24	100
TOTAL	33						64						97					
MEAN		566	2373	302	1.32			580	2760	1079	1.39			575	2628	910	1.37	

Table 64. Test fishery results for lake trout from Unnamed Lake (68-11N,116-20W)(Kikiktalik)(Coppermine area), 12-21 November 1987.

PRODUCTION

Quota	Harvest
1 000 kg	860 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
320	139	N/A	N/A	N/A	N/A

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b\ (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male					
Female					
Total	320	-1.8834	1.9246	1.7723-2.0769	0.81

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
N/A		N/A		N/A	N/A

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.
N/A = Not Available.

Table 65. Biological data by length interval for lake trout taken from Unnamed Lake (68-11N,116-20W)(Kikiktalik) (Coppermine area), 12-21 November 1987.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	ROUND WEIGHT(G) MEAN	ROUND WEIGHT(G) SD	K
450	2	1	470	1700	141	1.64
475	4	1	483	1850	265	1.65
500	29	9	512	2160	632	1.62
525	52	16	537	2421	211	1.57
550	120	38	562	2605	264	1.47
575	60	19	584	2730	299	1.37
600	30	9	606	2843	385	1.28
625	2	1	630	3400	0	1.36
650	3	1	660	3367	379	1.17
675	3	1	683	3567	493	1.12
700	3	1	703	4067	306	1.17
725	2	1	740	3450	919	0.85
750	3	1	763	5200	436	1.17
775	1	0	780	4800	-	1.01
800	4	1	803	5525	427	1.07
825	1	0	840	6700	-	1.13
850	1	0	850	6000	-	0.98
TOTAL	320					
MEAN			572	2697	678	1.44

Table 66. Test fishery results for Arctic charr from Nakyoktok River (Coppermine area), 22-25 August 1987.

PRODUCTION

Quota	Harvest
1000 kg	406.4 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
141	139	20	532.1	6.4	18.3

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male	55	-5.1716	3.0725	2.7655-3.3795	0.94
Female	74	-4.5701	2.8590	2.5721-3.1459	0.91
Total	140	-4.7660	2.9289	2.7355-3.1223	0.93

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
13-15	54	0.38	0.96	0.32	0.68

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.

Table 67. Biological data by age group for Arctic charr taken from Nakyoktok River (Coppermine area), 22-25 August 1987.

AGE (YR)	MALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	% FEMALE
7	1	2	330	-	400	-	1.11	-	-	-	-	-	-	-	1	1	330	-	400	-	1.11	-
8	-	-	-	-	-	-	-	2	4	420	14	850	71	1.16	2	2	420	14	850	71	1.16	-
9	2	4	520	57	1600	424	1.13	-	-	-	-	-	-	-	2	2	520	57	1600	424	1.13	-
10	5	10	564	34	1790	597	0.97	4	7	528	68	1675	612	1.09	9	8	548	52	1739	568	1.03	44
11	7	14	603	43	2522	850	1.11	4	7	568	73	2188	1093	1.12	11	10	590	55	2400	906	1.12	36
12	10	20	633	42	2865	596	1.12	11	20	612	34	2559	385	1.12	21	20	622	38	2705	508	1.12	52
13	12	24	663	39	3196	573	1.09	16	29	657	38	3191	633	1.12	28	26	660	38	3193	597	1.11	57
14	8	16	666	42	3031	374	1.03	8	14	639	35	2763	818	1.04	16	15	653	40	2897	630	1.04	50
15	3	6	678	54	3517	993	1.11	7	13	641	33	2857	326	1.08	10	9	653	41	3055	626	1.09	70
16	2	4	720	0	3650	495	0.98	4	7	643	24	3100	549	1.16	6	6	668	44	3283	557	1.10	67
TOTAL	50							56							106							
MEAN			630	73	2786	852	1.08			618	66	2694	803	1.11			624	69	2737	824	1.09	53
MEAN AGE	12.9									12.9							12.6					

Table 68. Biological data by length interval for Arctic charr taken from Nakyoktok River (Coppermine area), 22-25 August 1987.

LENGTH INTERVAL (MM)	MALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	% FEMALE
300	1	2	330	400	-	1.11	-	-	-	-	-	-	1	1	330	400	-	1.11	-
400	-	-	-	-	-	-	3	4	423	833	58	1.11	3	2	423	833	58	1.11	-
450	1	2	480	1300	-	1.18	-	-	-	-	-	-	2	1	485	1300	0	1.14	-
500	3	5	537	1168	245	0.76	3	4	520	1550	229	1.10	7	5	529	1415	310	0.96	50
550	6	11	570	2075	293	1.11	9	12	578	2228	288	1.15	18	13	573	2183	275	1.15	60
600	18	33	621	2683	238	1.12	25	34	623	2686	391	1.11	45	32	622	2683	326	1.11	58
650	15	27	676	3437	393	1.11	23	31	670	3283	421	1.09	40	29	672	3334	405	1.10	61
700	9	16	722	3950	884	1.04	9	12	710	3667	599	1.02	20	14	717	3808	765	1.03	50
750	2	4	780	5200	566	1.09	2	3	750	4325	247	1.03	4	3	765	4763	618	1.06	50
TOTAL	55						74						140						
MEAN			640	2972	1032	1.09			634	2858	805	1.09			635	2886	906	1.09	57

Table 69. Test fishery results for Arctic charr from Unnamed Lake (63-29N,65-05W)(Iqalualuit)(Iqaluit area), February, 1988.

PRODUCTION

Quota	Harvest
900 kg	not reported

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
104	139	N/A	N/A	N/A	N/A

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b\ (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male	41	-4.6332	2.8766	2.6417-3.1115	0.97
Female	21	-1.6519	1.7822	1.1620-2.4024	0.81
Total	104	-4.4626	2.8127	2.6173-3.0081	0.94

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
14-17	35	0.66	0.94	0.48	0.52

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.
N/A = Not Available.

Table 70. Biological data by age group for Arctic charr taken from Unnamed Lake (63-29N,65-05W)(Iqaluaiuit)(Iqaluit area), February, 1988.

AGE (YR)	MALES N	MALES LENGTH(MM) MEAN	MALES LENGTH(MM) SD	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES LENGTH(MM) SD	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED LENGTH(MM) SD	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	553	-	1850	-	1.09	-
11	4	506	44	1438	409	1.08	50	-	-	-	-	-	-	-	5	531	68	1670	629	1.07	50
12	6	554	47	1917	531	1.10	83	4	572	25	1938	253	1.03	100	14	563	35	1918	369	1.07	90
13	6	577	37	2125	464	1.09	67	2	533	21	1625	35	1.08	100	23	585	41	2217	473	1.09	75
14	7	607	28	2286	295	1.02	86	-	-	-	-	-	-	-	17	622	41	2547	594	1.04	86
15	5	581	18	1970	175	1.01	100	2	596	16	1825	106	0.87	100	12	595	42	2058	407	0.97	100
16	2	614	30	2525	318	1.09	100	-	-	-	-	-	-	-	3	621	25	2650	312	1.10	100
17	1	582	-	2200	-	1.12	100	-	-	-	-	-	-	-	1	582	-	2200	-	1.12	100
18	-	-	-	-	-	-	-	1	590	-	1800	-	0.88	100	1	590	-	1800	-	0.88	100
19	1	661	-	2600	-	0.90	100	-	-	-	-	-	-	-	1	661	-	2600	-	0.90	100
TOTAL	32							9							78						
MEAN		576	47	2053	461	1.06			571	30	1828	205	0.99			589	48	2187	532	1.05	
MEAN AGE	13.6							13.6							13.5						

Table 71. Biological data by length interval for Arctic charr taken from Unnamed Lake (63-29N,65-05W)(Iqaluaiuit)(Iqaluit area), February, 1988.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH(MM) MEAN	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
450	3	478	1183	208	1.08	33	1	493	1300	-	1.08	100	4	482	1213	180	1.08	50
500	6	529	1617	204	1.09	67	7	530	1607	61	1.08	100	17	531	1650	161	1.10	71
550	19	577	2061	179	1.07	95	10	579	1900	204	0.98	100	46	577	1988	194	1.04	61
600	10	622	2525	245	1.05	90	3	606	1983	225	0.89	67	27	620	2470	295	1.03	41
650	3	673	3133	462	1.02	100	-	-	-	-	-	-	9	671	3150	299	1.04	33
700	-	-	-	-	-	-	-	-	-	-	-	-	1	712	3850	-	1.07	0
TOTAL	41						21						104					
MEAN		581	2123	519	1.06			563	1786	246	1.01			586	2147	529	1.05	

Table 72. Test fishery results for Arctic charr from Unnamed Lake (63-29N,65-05W)(Iqalualuit)(Iqaluit area), 22 November to 5 December 1988.

PRODUCTION

Quota	Harvest
1 400 kg	648 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
321	102 127	N/A N/A	121.05	63.64	128.5

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male					
Female					
Total	102	-3.9266	2.6239	2.3613-2.8865	0.89

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
14-16	49	0.62	0.96	0.54	0.46

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.
N/A = Not Available.

Table 73. Biological data by age group for Arctic charr taken from Unnamed Lake (63-29N,65-05W)(Iqalualuit) (Iqaluit area), 22 November to 5 December 1988.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	ROUND WEIGHT(G) MEAN	ROUND WEIGHT(G) SD
9	1	1	520	-	1500	-
10	1	1	490	-	1300	-
11	2	2	523	39	1575	177
12	8	10	514	19	1625	411
13	18	22	530	37	1739	396
14	19	23	573	45	2108	414
15	16	20	573	47	2056	469
16	12	15	602	46	2417	726
17	2	2	637	47	3000	636
18	1	1	660	-	2850	-
19	1	1	610	-	1500	-
TOTAL	81					
MEAN			562	52	2007	562
MEAN AGE	14.1					

Table 74. Biological data by length interval for Arctic charr taken from Unnamed Lake (63-29N,65-05W)(Iqalualuit) (Iqaluit area), 22 November to 5 December 1988.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	ROUND WEIGHT(G) MEAN	ROUND WEIGHT(G) SD	K
450	8	8	487	1388	222	1.20
500	34	33	521	1619	276	1.14
550	31	30	567	1953	200	1.07
600	18	18	612	2392	301	1.04
650	10	10	665	3250	349	1.11
700	1	1	710	3700	-	1.03
TOTAL	102					
MEAN			564	2019	596	1.10

Table 75. Test fishery results for Arctic charr from the Gjoa Haven general area, 2-17 August 1985.

PRODUCTION

Quota	Harvest
1 000 kg	163.5 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
45	139	N/A	N/A	N/A	N/A

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male					
Female					
Total	45	-5.3748	3.1225	2.5867-3.6583	0.87

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
		(sample size too small)			

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.
N/A = Not Available.

Table 76. Biological data by age group for Arctic charr taken from the Gjoa Haven general area, 2-17 August 1985.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
9	1	4	550	-	1600	-
10	2	8	555	49	1800	0
11	2	8	573	11	1650	212
12	2	8	635	49	2500	1980
13	3	12	752	68	4000	1054
14	5	20	680	74	3180	1446
15	2	8	670	113	2900	1556
16	2	8	745	49	3150	495
17	6	24	744	53	3983	1222
TOTAL	25					
MEAN			681	89	3096	1330
MEAN AGE	13.9					

Table 77. Biological data by length interval for Arctic charr taken from the Gjoa Haven general area, 2-17 August 1985.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	ROUND WEIGHT(G) MEAN	ROUND WEIGHT(G) SD	K
500	1	2	520	1800	-	1.28
550	6	13	574	1733	151	0.92
600	3	7	615	1867	802	0.78
650	11	24	677	2927	781	0.95
700	8	18	727	4000	515	1.04
750	10	22	764	4330	912	0.97
800	6	13	811	5017	665	0.94
TOTAL	45					
MEAN			702	3453	1304	0.96

Table 78. Test fishery results for Arctic charr from Back River (Gjoa Haven area), 29 August to 14 September 1987.

PRODUCTION

Quota	Harvest
2 000 kg	1 945.1 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE[1]	CPE[2]
489	139	N/A	381.7	30.7	122.3

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b\ (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male					
Female					
Total	115	-4.6936	2.8966	2.8746-2.9186	0.93

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
16-20	42	0.59	0.99	0.45	0.55

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.
N/A = Not Available.

Table 79. Biological data by age group for Arctic charr taken from Back River (Gjoa Haven area), 29 August to 14 September 1987.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	ROUND WEIGHT(G) MEAN	ROUND WEIGHT(G) SD
11	4	5	633	21	2700	508
12	4	5	646	14	2863	225
13	5	6	680	25	3100	368
14	17	20	720	37	3997	631
15	12	14	716	58	3892	1016
16	19	22	731	46	4137	844
17	14	16	743	57	4289	1377
18	5	6	781	32	4690	819
19	2	2	765	1	4825	35
20	2	2	776	20	4850	141
22	1	1	820	-	4800	-
TOTAL	85					
MEAN			723	55	3989	989
MEAN AGE	15.4					

Table 80. Biological data by length interval for Arctic charr taken from Back River (Gjoa Haven area), 29 August to 14 September 1987.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	ROUND WEIGHT(G) MEAN	ROUND WEIGHT(G) SD	K
600	8	7	630	2713	319	1.08
650	40	35	677	3158	352	1.02
700	29	25	723	3967	331	1.05
750	26	23	776	4731	585	1.01
800	11	10	820	5600	534	1.01
850	1	1	857	7100	-	1.13
TOTAL	115					
MEAN			723	3954	996	1.03

Table 81. Test fishery results for Arctic cisco from Kaleet River (Gjoa Haven area), 19-27 October 1986.

PRODUCTION

Quota	Harvest
2 000 kg	179 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
111	139	24	385.88	6.9	11.1

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male					
Female					
Total	100	-3.6163	2.5458	2.1706-2.9210	0.81

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
14-16	50	0.80	0.96	0.55	0.45

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.

Table 82. Biological data by age group for Arctic cisco taken from Kaleet River (Gjoa Haven area), 19-27 October 1986.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	ROUND WEIGHT(G) MEAN	ROUND WEIGHT(G) SD
10	3	3	475	13	1500	178
11	6	6	455	14	1397	165
12	8	8	458	23	1478	170
13	27	28	476	19	1584	206
14	27	28	486	17	1697	203
15	17	18	494	16	1744	233
16	6	6	491	11	1767	232
18	1	1	498	-	1600	-
TOTAL	95					
MEAN			480	21	1633	226
MEAN AGE	13.6					

Table 83. Biological data by length interval for Arctic cisco taken from Kaleet River (Gjoa Haven area), 19-27 October 1986.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	ROUND WEIGHT(G) MEAN	ROUND WEIGHT(G) SD	K
410	1	1	417	1200	-	1.65
430	2	2	435	1185	49	1.44
440	4	4	444	1363	48	1.56
450	7	7	454	1413	80	1.51
460	10	10	463	1461	156	1.48
470	21	21	473	1562	97	1.47
480	22	22	484	1663	160	1.47
490	11	11	495	1755	114	1.45
500	16	16	504	1833	146	1.43
510	4	4	511	2083	263	1.56
520	2	2	524	1905	148	1.33
TOTAL	100					
MEAN			481	1637	226	1.47

Table 84. Test fishery results for Arctic cisco from Kaleet River (Gjoa Haven area), 1-14 November 1987.

PRODUCTION

Quota	Harvest
2 000 kg	466 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE[1]	CPE[2]
305	102	24	127.27	57.5	55.8

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male					
Female					
Total	110	-5.0460	3.0625	2.6619-3.4631	0.82

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
13-15	39	0.80	1.00	0.55	0.45

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.

Table 85. Biological data by age group for Arctic cisco taken from Kaleet River (Gjoa Haven area), 1-14 November 1987.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
9	1	1	425	-	950	-
10	4	4	404	17	925	87
11	27	25	411	18	955	120
12	36	33	415	25	921	225
13	27	25	425	16	1026	179
14	8	7	456	22	1275	193
15	4	4	485	21	1600	274
16	2	2	488	11	1400	141
TOTAL	109					
MEAN			423	27	1016	239
MEAN AGE	12.2					

Table 86. Biological data by length interval for Arctic cisco taken from Kaleet River (Gjoa Haven area), 1-14 November 1987.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	ROUND WEIGHT(G) MEAN	ROUND WEIGHT(G) SD	K
370	1	1	370	700	-	1.38
380	3	3	382	717	189	1.29
390	11	10	393	805	123	1.33
400	17	15	402	840	134	1.30
410	20	18	413	960	81	1.37
420	22	20	423	967	111	1.28
430	10	9	431	1095	117	1.36
440	9	8	443	1161	119	1.33
450	4	4	455	1238	85	1.31
460	2	2	460	1375	177	1.41
470	3	3	474	1467	153	1.38
480	4	4	480	1400	168	1.27
490	2	2	493	1425	106	1.19
500	2	2	501	1775	35	1.41
TOTAL	110					
MEAN			423	1018	239	1.32

Table 87. Test fishery results for Arctic charr from Kagluk River (Prince Albert Sound)(Holman area), 20-23 August 1985.

PRODUCTION

Quota	Harvest
1 000 kg	168 kg (sample)

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
56	139	N/A	41.3	33	99

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male	34	-5.4189	3.1790	2.9366-3.4214	0.98
Female	22	-4.9279	2.9927	2.6875-3.2979	0.98
Total	56	-5.3879	3.1643	2.9745-3.3541	0.98

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
14-16	20	0.55	0.97	0.42	0.58

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.
N/A = Not Available.

Table 88. Biological data by age group for Arctic charr taken from Kagluk River (Holman area), 20-23 August 1985.

AGE (YR)	MALES N	%	LENGTH(MM) MEAN	LENGTH(MM) SD	WEIGHT(G) MEAN	WEIGHT(G) SD	K	FEMALES N	%	LENGTH(MM) MEAN	LENGTH(MM) SD	WEIGHT(G) MEAN	WEIGHT(G) SD	K	COMBINED N	%	LENGTH(MM) MEAN	LENGTH(MM) SD	WEIGHT(G) MEAN	WEIGHT(G) SD	K	% FEMALE
10	1	3	505	-	1400	-	1.09	1	7	450	-	900	-	0.99	2	5	478	39	1150	354	1.04	50
11	7	24	559	41	2071	395	1.17	3	20	487	50	1333	416	1.13	10	23	538	54	1850	519	1.16	30
12	2	7	630	42	3300	0	1.34	2	13	608	32	2725	460	1.21	4	9	619	33	3013	425	1.27	50
13	5	17	670	47	3800	1058	1.24	3	20	623	55	2767	404	1.15	8	18	653	52	3413	986	1.21	38
14	6	21	682	34	3917	788	1.22	4	27	618	22	2625	272	1.11	10	23	656	44	3400	903	1.18	40
15	4	14	654	11	3300	356	1.18	2	13	620	14	2750	495	1.15	6	14	643	20	3117	454	1.17	33
16	3	10	737	64	5200	1389	1.28	-	-	-	-	-	-	-	3	7	737	64	5200	1389	1.28	-
17	1	3	770	-	5200	-	1.14	-	-	-	-	-	-	-	1	2	770	-	5200	-	1.14	-
TOTAL	29							15							44							
MEAN			645	75	3414	1261	1.21			580	72	2310	754	1.13			623	80	3038	1225	1.19	34
MEAN AGE	13.3									12.8							13.1					

Table 89. Biological data by length interval for Arctic charr taken from Kagluk River (Holman area), 20-23 August 1985.

LENGTH INTERVAL (MM)	MALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	WEIGHT(G) SD	K	FEMALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	WEIGHT(G) SD	K	COMBINED N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	WEIGHT(G) SD	K	% FEMALE
400	-	-	-	-	-	-	1	5	440	1000	-	1.17	1	2	440	1000	-	1.17	-
450	-	-	-	-	-	-	2	9	465	1050	212	1.04	2	4	465	1050	212	1.04	-
500	5	15	522	1680	268	1.17	2	9	535	1700	141	1.11	7	13	526	1686	227	1.15	29
550	3	9	577	2233	153	1.16	2	9	578	2400	0	1.25	5	9	577	2300	141	1.20	40
600	10	29	626	3020	305	1.23	9	41	617	2728	279	1.16	19	34	622	2882	322	1.20	47
650	10	29	668	3570	400	1.19	6	27	674	3292	273	1.07	16	29	670	3466	374	1.15	38
700	3	9	712	4700	200	1.30	-	-	-	-	-	-	3	5	712	4700	200	1.30	-
750	2	6	760	5400	283	1.23	-	-	-	-	-	-	2	4	760	5400	283	1.23	-
800	1	3	810	6800	-	1.28	-	-	-	-	-	-	1	2	810	6800	-	1.28	-
TOTAL	34						22						56						
MEAN			640	3315	1203	1.21			600	2527	788	1.13			624	3005	1121	1.18	39

Table 90. Test fishery results for Arctic charr from Kuuk River (Prince Albert Sound)(Holman area), 14-15 August 1985.

PRODUCTION

Quota	Harvest
1 000 kg	414 kg (sample)

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
97	139	N/A	13.8	169	694

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male	51	-3.9334	2.6344	2.3508-2.9180	0.94
Female	50	-4.2229	2.7278	2.3967-3.0589	0.92
Total	101	-4.1377	2.7019	2.4824-2.9214	0.93

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
16-19	65	0.64	0.99	0.47	0.53

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.
N/A = Not Available.

Table 91. Biological data by age group for Arctic charr taken from Kuuk River (Holman area), 14-15 August 1985.

AGE (YR)	MALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	% FEMALE
10	-	-	-	-	-	-	-	1	3	540	-	1600	-	1.02	1	2	540	-	1600	-	1.02	-
12	1	3	670	-	3200	-	1.06	2	6	605	92	2150	1061	0.93	3	5	627	75	2500	964	0.97	67
13	1	3	680	-	3500	-	1.11	2	6	655	64	3150	1202	1.09	3	5	663	47	3267	874	1.10	67
14	8	24	689	43	3600	555	1.09	5	16	692	26	3440	503	1.04	13	20	690	36	3538	520	1.07	38
15	7	21	730	59	4257	883	1.09	7	23	684	13	3343	276	1.04	14	22	707	47	3800	787	1.07	50
16	6	18	752	44	4483	585	1.05	7	23	714	90	3457	804	0.96	13	20	732	72	3931	865	1.00	54
17	5	15	730	46	4160	805	1.06	4	13	783	51	4400	1488	0.90	9	14	753	53	4267	1082	0.99	44
18	-	-	-	-	-	-	-	1	3	790	-	3700	-	0.75	1	2	790	-	3700	-	0.75	-
19	2	6	835	21	5800	283	1.00	2	6	775	49	4400	849	0.94	4	6	805	47	5100	959	0.97	50
20	1	3	820	-	5400	-	0.98	-	-	-	-	-	-	-	1	2	820	-	5400	-	0.98	-
21	2	6	840	28	5150	212	0.87	-	-	-	-	-	-	-	2	3	840	28	5150	212	0.87	-
22	1	3	860	-	6000	-	0.94	-	-	-	-	-	-	-	1	2	860	-	6000	-	0.94	-
TOTAL	34							31							65							
MEAN			740	66	4303	911	1.05			703	76	3455	963	0.98			722	73	3898	1022	1.02	48
MEAN AGE	16.0									15.2							15.6					

Table 92. Biological data by length interval for Arctic charr taken from Kuuk River (Holman area), 14-15 August 1985.

LENGTH INTERVAL (MM)	MALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	% FEMALE
500	1	2	520	1300	-	0.92	2	4	540	1500	141	0.95	3	3	533	1433	153	0.94	67
550	1	2	590	2300	-	1.12	-	-	-	-	-	-	1	1	590	2300	-	1.12	-
600	-	-	-	-	-	-	2	4	625	2500	283	1.02	2	2	625	2500	283	1.02	-
650	15	29	679	3433	247	1.10	15	30	673	3180	296	1.04	30	30	676	3307	297	1.07	50
700	11	22	720	4082	473	1.09	13	26	715	3746	367	1.02	24	24	718	3900	443	1.05	54
750	12	24	765	4729	549	1.06	6	12	780	4717	788	1.00	18	18	770	4725	615	1.04	33
800	7	14	816	5136	375	0.95	9	18	819	5411	927	0.98	16	16	818	5291	731	0.97	56
850	4	8	855	5925	699	0.95	3	6	857	5367	874	0.85	7	7	856	5686	767	0.91	43
TOTAL	51						50						101						
MEAN			736	4243	1010	1.05			727	3950	1185	1.01			731	4098	1105	1.03	50

Table 93. Test fishery results for Arctic charr from Naloagyok River (Prince Albert Sound)(Holman area), 18-20 August 1985.

PRODUCTION

Quota	Harvest
1 000 kg	45 kg (sample)

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
27	139	N/A	21.6	30	49.5

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male	20	-5.3337	3.1343	2.9421-3.3265	0.99
Female	7	-5.5692	3.2156	2.6101-3.8211	0.98
Total	27	-5.4752	3.1847	3.0180-3.3514	0.99

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
10-13	15	0.44	0.99	0.35	0.64

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.
N/A = Not Available.

Table 94. Biological data by age group for Arctic charr taken from Naloagyok River (Holman area), 18-20 August 1985.

AGE (YR)	MALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	% FEMALE
7	-	-	-	-	-	-	-	1	14	345	-	425	-	1.03	1	4	345	-	425	-	1.03	-
8	1	6	370	-	550	-	1.09	-	-	-	-	-	-	-	1	4	370	-	550	-	1.09	-
9	2	13	380	42	575	247	1.01	1	14	410	-	650	-	0.94	3	13	390	35	600	180	0.99	33
10	2	13	448	4	938	53	1.05	4	57	443	46	888	352	0.99	6	26	444	36	904	275	1.01	67
11	6	38	565	51	2142	686	1.15	-	-	-	-	-	-	-	6	26	565	51	2142	686	1.15	-
12	1	6	620	-	2600	-	1.09	-	-	-	-	-	-	-	1	4	620	-	2600	-	1.09	-
13	2	13	620	57	2625	672	1.09	-	-	-	-	-	-	-	2	9	620	57	2625	672	1.09	-
14	1	6	620	-	2600	-	1.09	-	-	-	-	-	-	-	1	4	620	-	2600	-	1.09	-
15	1	6	650	-	2700	-	0.98	-	-	-	-	-	-	-	1	4	650	-	2700	-	0.98	-
19	-	-	-	-	-	-	-	1	14	630	-	2800	-	1.12	1	4	630	-	2800	-	1.12	-
TOTAL	16							7							23							
MEAN			534	102	1848	932	1.09			451	93	1061	826	1.01			509	105	1609	957	1.06	30
MEAN AGE		11.2								10.7							11.0					

Table 95. Biological data by length interval for Arctic charr taken from Naloagyok River (Holman area), 18-20 August 1985.

LENGTH INTERVAL (MM)	MALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	% FEMALE
300	-	-	-	-	-	-	1	14	345	425	-	1.03	1	4	345	425	-	1.03	-
350	2	10	360	475	106	1.01	-	-	-	-	-	-	2	7	360	475	106	1.01	-
400	3	15	418	792	166	1.07	4	57	418	700	91	0.96	7	26	418	739	126	1.01	57
450	3	15	473	1067	153	1.00	-	-	-	-	-	-	3	11	473	1067	153	1.00	-
500	1	5	520	1600	-	1.14	1	14	510	1400	-	1.06	2	7	515	1500	141	1.10	50
550	2	10	570	2175	35	1.18	-	-	-	-	-	-	2	7	570	2175	35	1.18	-
600	6	30	615	2608	206	1.12	1	14	630	2800	-	1.12	7	26	617	2636	201	1.12	14
650	3	15	660	3000	265	1.04	-	-	-	-	-	-	3	11	660	3000	265	1.04	-
TOTAL	20						7						27						
MEAN			536	1856	950	1.08			451	1061	826	1.01			514	1650	971	1.06	26

Table 96. Test fishery results for Arctic charr from Kagloryuak River (Prince Albert Sound)(Holman area), 17-18 August 1985.

PRODUCTION

Quota	Harvest
1 000 kg	48 kg (sample)

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
33	139	N/A	13.2	60	88

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male	16	-5.3183	3.1319	2.8720-3.3918	0.98
Female	17	-5.2397	3.1024	2.9381-3.2667	0.99
Total	33	1.0227	0.7845	0.3598-1.2092	0.56

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
10-13	20	0.41	0.99	0.34	0.66

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.
N/A = Not Available.

Table 97. Biological data by age group for Arctic charr taken from Kagloryak River (Holman area), 17-18 August 1985.

AGE (YR)	MALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	% FEMALE
7	1	6	380	-	600	-	1.09	-	-	-	-	-	-	-	1	3	380	-	600	-	1.09	-
8	1	6	510	-	1600	-	1.21	-	-	-	-	-	-	-	1	3	510	-	1600	-	1.21	-
9	5	31	460	41	1064	302	1.07	6	35	427	31	842	174	1.07	11	33	442	38	943	256	1.07	55
10	3	19	490	61	1250	444	1.03	5	29	498	47	1390	425	1.10	8	24	495	48	1338	406	1.07	63
11	4	25	550	93	2013	847	1.13	1	6	450	-	1000	-	1.10	5	15	530	92	1810	862	1.13	20
12	1	6	610	-	2600	-	1.15	2	12	535	35	1750	354	1.13	3	9	560	50	2033	551	1.14	67
13	-	-	-	-	-	-	-	2	12	610	14	2550	71	1.12	2	6	610	14	2550	71	1.12	-
14	1	6	630	-	2700	-	1.08	1	6	600	-	2200	-	1.02	2	6	615	21	2450	354	1.05	50
TOTAL	16							17							33							
MEAN			506	82	1539	755	1.09			494	73	1400	641	1.09			500	77	1467	691	1.09	52
MEAN AGE	10.0							10.5							10.3							

Table 98. Biological data by length interval for Arctic charr taken from Kagloryak River (Holman area), 17-18 August 1985.

LENGTH INTERVAL (MM)	MALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	% FEMALE
350	1	6	380	600	-	1.09	1	6	380	600	-	1.09	2	6	380	600	0	1.09	50
400	4	25	420	800	135	1.08	5	29	430	850	87	1.07	9	27	426	828	106	1.07	56
450	2	13	465	1060	198	1.05	4	24	470	1138	125	1.09	6	18	468	1112	137	1.08	67
500	4	25	520	1525	96	1.09	2	12	520	1550	71	1.10	6	18	520	1533	82	1.09	33
550	1	6	590	2500	-	1.22	2	12	560	2000	0	1.14	3	9	570	2167	289	1.16	67
600	4	25	610	2525	171	1.11	3	18	607	2433	208	1.09	7	21	609	2486	177	1.10	43
TOTAL	16						17						33						
MEAN			506	1539	755	1.09			494	1400	641	1.09			500	1467	691	1.09	52

Table 99. Test fishery results for yellow walleye from Trout Lake (Hay River area), 6-9 August 1987.

PRODUCTION

Quota		Harvest
1 500 kg	Whitefish, trout and walleye combined	115 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
35	139	N/A	164	5.12	10.48

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male					
Female					
Total	34	-2.961	2.310	-	0.68

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
N/A	----------	N/A	----------		N/A

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.
N/A = Not Available.

Table 100. Biological data by age group for yellow walleye taken from Trout Lake (Hay River area), 6-9 August 1987.

AGE (YR)	MALES N	%	LENGTH(MM) MEAN	LENGTH(MM) SD	WEIGHT(G) MEAN	WEIGHT(G) SD	K	FEMALES N	%	LENGTH(MM) MEAN	LENGTH(MM) SD	WEIGHT(G) MEAN	WEIGHT(G) SD	K	COMBINED N	%	LENGTH(MM) MEAN	LENGTH(MM) SD	WEIGHT(G) MEAN	WEIGHT(G) SD	K	% FEMALE
7	1	14	410	-	1100	-	1.60	1	5	460	-	1500	-	1.54	2	7	435	35	1300	283	1.57	50
8	1	14	440	-	1400	-	1.64	1	5	480	-	1500	-	1.36	2	7	460	28	1450	71	1.50	50
9	-	-	-	-	-	-	-	1	5	530	-	2000	-	1.34	1	3	530	-	2000	-	1.34	-
10	3	43	533	31	2133	351	1.40	8	36	530	27	2188	210	1.48	11	38	531	27	2173	237	1.46	73
11	2	29	500	0	1800	283	1.44	10	45	518	16	2030	231	1.46	12	41	515	16	1992	243	1.46	83
12	-	-	-	-	-	-	-	1	5	520	-	2200	-	1.56	1	3	520	-	2200	-	1.56	-
TOTAL	7							22							29							
MEAN			493	53	1786	467	1.47			519	26	2045	274	1.46			512	35	1983	340	1.47	76
MEAN AGE		9.6								10.3							10.1					

Table 101. Biological data by length interval for yellow walleye taken from Trout Lake (Hay River area), 6-9 August 1987.

LENGTH INTERVAL (MM)	MALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	WEIGHT(G) SD	K	FEMALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	WEIGHT(G) SD	K	COMBINED N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	WEIGHT(G) SD	K	% FEMALE
410	1	14	410	1100	-	1.60	-	-	-	-	-	-	1	3	410	1100	-	1.60	-
440	1	14	440	1400	-	1.64	-	-	-	-	-	-	1	3	440	1400	-	1.64	-
460	-	-	-	-	-	-	1	4	460	1500	-	1.54	1	3	460	1500	-	1.54	-
480	-	-	-	-	-	-	1	4	480	1500	-	1.36	1	3	480	1500	-	1.36	-
490	-	-	-	-	-	-	1	4	490	2700	-	2.29	1	3	490	2700	-	2.29	-
500	3	43	500	1800	200	1.44	4	14	500	1900	216	1.52	7	20	500	1857	199	1.49	57
510	-	-	-	-	-	-	4	14	510	1975	50	1.49	4	11	510	1975	50	1.49	-
520	-	-	-	-	-	-	7	25	520	2029	198	1.44	7	20	520	2029	198	1.44	-
530	-	-	-	-	-	-	3	11	530	2200	200	1.48	3	9	530	2200	200	1.48	-
540	1	14	540	2100	-	1.33	3	11	540	2333	208	1.48	4	11	540	2275	206	1.44	75
550	-	-	-	-	-	-	2	7	550	2350	212	1.41	2	6	550	2350	212	1.41	-
560	1	14	560	2500	-	1.42	-	-	-	-	-	-	1	3	560	2500	-	1.42	-
580	-	-	-	-	-	-	1	4	580	2800	-	1.44	1	3	580	2800	-	1.44	-
590	-	-	-	-	-	-	1	4	590	2300	-	1.12	1	3	590	2300	-	1.12	-
TOTAL	7						28						35						
MEAN			493	1786	467	1.47			521	2100	321	1.49			515	2037	369	1.48	80

Table 102. Test fishery results for lake trout from Trout Lake (Hay River area), 6-9 August 1987.

PRODUCTION

Quota		Harvest
1 500 kg	Whitefish, trout and walleye combined	671 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
106	139	N/A	164	15.5	60.5

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male					
Female					
Total	105	-5.394	3.204	-	0.88

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
14-19	99	0.36	0.99	0.30	0.70

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.
N/A = Not Available.

Table 103. Biological data by age group for lake trout taken from Trout Lake (Hay River area), 6-9 August 1987.

AGE (YR)	MALES N	%	LENGTH(MM) MEAN	LENGTH(MM) SD	WEIGHT(G) MEAN	WEIGHT(G) SD	K	FEMALES N	%	LENGTH(MM) MEAN	LENGTH(MM) SD	WEIGHT(G) MEAN	WEIGHT(G) SD	K	COMBINED N	%	LENGTH(MM) MEAN	LENGTH(MM) SD	WEIGHT(G) MEAN	WEIGHT(G) SD	K	% FEMALE
9	-	-	-	-	-	-	-	1	3	590	-	3100	-	1.51	2	2	555	49	2750	495	1.61	-
10	6	10	563	36	2450	414	1.36	6	15	597	50	3333	717	1.56	13	13	581	43	2885	694	1.45	50
11	7	12	580	45	2900	950	1.46	4	10	560	29	2650	645	1.49	11	11	573	40	2809	826	1.47	36
12	7	12	611	94	3443	1665	1.44	4	10	570	50	2450	500	1.32	11	11	596	81	3082	1411	1.40	36
13	14	24	569	48	2686	1026	1.42	11	28	640	80	4409	1680	1.62	25	25	600	72	3444	1584	1.51	44
14	7	12	590	58	3114	1259	1.46	5	13	672	41	4880	1525	1.56	12	12	624	65	3850	1593	1.50	42
15	6	10	665	83	4833	1759	1.58	-	-	-	-	-	-	-	6	6	665	83	4833	1759	1.58	-
16	4	7	595	53	3600	898	1.69	5	13	766	94	6920	1494	1.58	9	9	690	117	5444	2117	1.63	56
17	1	2	690	-	4900	-	1.49	2	5	740	0	5800	283	1.43	3	3	723	29	5500	557	1.45	67
18	3	5	727	93	6433	2491	1.63	1	3	680	-	5200	-	1.65	4	4	715	79	6125	2125	1.64	25
19	2	3	765	21	7900	1273	1.76	-	-	-	-	-	-	-	2	2	765	21	7900	1273	1.76	-
20	1	2	700	-	5200	-	1.52	-	-	-	-	-	-	-	1	1	700	-	5200	-	1.52	-
TOTAL	58							39							99							
MEAN			608	78	3571	1764	1.49			643	88	4303	1808	1.54			621	84	3839	1799	1.51	40
MEAN AGE		13.5								13.0							13.2					

Table 104. Biological data by length group for lake trout taken from Trout Lake (Hay River area), 6-9 August 1987.

LENGTH INTERVAL (MM)	MALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	WEIGHT(G) SD	K	FEMALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	WEIGHT(G) SD	K	COMBINED N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	WEIGHT(G) SD	K	% FEMALE
500	5	8	510	2000	235	1.51	-	-	-	-	-	-	6	6	512	2067	266	1.54	-
525	7	11	534	2386	195	1.57	6	15	535	2367	314	1.54	13	12	535	2377	245	1.55	46
550	16	25	562	2444	388	1.38	5	13	562	2720	756	1.53	21	20	562	2510	492	1.42	24
575	6	9	587	2567	234	1.27	3	8	587	2800	436	1.38	10	9	587	2660	295	1.31	33
600	9	14	607	3378	567	1.51	5	13	608	3520	729	1.57	14	13	607	3429	606	1.53	36
625	3	5	640	4133	321	1.58	2	5	640	3550	495	1.35	5	5	640	3900	464	1.49	40
650	3	5	660	4533	306	1.58	4	10	653	4675	435	1.68	7	7	656	4614	363	1.64	57
675	2	3	690	4250	919	1.29	2	5	685	5100	141	1.59	4	4	688	4675	727	1.44	50
700	7	11	703	5514	587	1.59	4	10	710	6200	860	1.73	11	10	705	5764	741	1.64	36
725	1	2	730	7900	-	2.03	5	13	736	6080	342	1.53	6	6	735	6383	804	1.61	83
750	3	5	760	6967	153	1.59	1	3	760	7200	-	1.64	4	4	760	7025	171	1.60	25
775	1	2	780	8800	-	1.85	-	-	-	-	-	-	1	1	780	8800	-	1.85	-
825	2	3	830	9850	778	1.72	1	3	830	6300	-	1.10	3	3	830	8667	2122	1.52	33
875	-	-	-	-	-	-	1	3	890	9300	-	1.32	1	1	890	9300	-	1.32	-
TOTAL	65						39						106						
MEAN			614	3723	1967	1.49			643	4303	1808	1.54			624	3915	1911	1.51	38

Table 105. Biological data by age group for northern pike taken from Trout Lake (Hay River area), 6-9 August 1987.

AGE (YR)	MALES N	%	LENGTH(MM) MEAN	LENGTH(MM) SD	WEIGHT(G) MEAN	WEIGHT(G) SD	K	FEMALES N	%	LENGTH(MM) MEAN	LENGTH(MM) SD	WEIGHT(G) MEAN	WEIGHT(G) SD	K	COMBINED N	%	LENGTH(MM) MEAN	LENGTH(MM) SD	WEIGHT(G) MEAN	WEIGHT(G) SD	K	% FEMALE
6	1	13	600	-	2100	-	0.97	-	-	-	-	-	-	-	1	5	600	-	2100	-	0.97	-
9	2	25	760	0	4600	424	1.05	4	31	783	30	4600	648	0.96	6	29	775	26	4600	537	0.99	67
10	-	-	-	-	-	-	-	3	23	827	21	5100	361	0.90	3	14	827	21	5100	361	0.90	-
11	3	38	687	21	3700	400	1.14	1	8	880	-	6100	-	0.90	4	19	735	98	4300	1244	1.08	25
12	1	13	800	-	5400	-	1.05	2	15	895	92	7250	2475	0.99	3	14	863	85	6633	2050	1.01	67
13	1	13	850	-	6500	-	1.06	2	15	915	92	7200	2546	0.92	3	14	893	75	6967	1845	0.96	67
14	-	-	-	-	-	-	-	1	8	940	-	7000	-	0.84	1	5	940	-	7000	-	0.84	-
TOTAL	8							13							21							
MEAN			729	80	4288	1344	1.08			850	72	5823	1607	0.93			804	95	5238	1663	0.99	62
MEAN AGE	10.3							10.8							10.6							

Table 106. Biological data by length interval for northern pike taken from Trout Lake (Hay River area), 6-9 August 1987.

LENGTH INTERVAL (MM)	MALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	WEIGHT(G) SD	K	FEMALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	WEIGHT(G) SD	K	COMBINED N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	WEIGHT(G) SD	K	% FEMALE
600	1	8	600	2100	-	0.97	-	-	-	-	-	-	1	3	600	2100	-	0.97	-
660	1	8	670	3700	-	1.23	-	-	-	-	-	-	1	3	670	3700	-	1.23	-
680	1	8	680	3300	-	1.05	-	-	-	-	-	-	1	3	680	3300	-	1.05	-
700	1	8	710	4100	-	1.15	2	13	705	3750	212	1.07	3	10	707	3867	252	1.10	67
720	1	8	730	3500	-	0.90	-	-	-	-	-	-	1	3	730	3500	-	0.90	-
740	-	-	-	-	-	-	1	6	750	4000	-	0.95	1	3	750	4000	-	0.95	-
760	4	31	763	4700	283	1.06	1	6	770	5000	-	1.10	5	17	764	4760	279	1.07	20
780	-	-	-	-	-	-	1	6	790	4100	-	0.83	1	3	790	4100	-	0.83	-
800	1	8	800	5400	-	1.05	1	6	810	4800	-	0.90	2	7	805	5100	424	0.98	50
820	1	8	820	5200	-	0.94	3	19	823	5267	252	0.94	4	14	823	5250	208	0.94	75
840	1	8	850	6500	-	1.06	3	19	850	5833	666	0.95	4	14	850	6000	638	0.98	75
880	-	-	-	-	-	-	1	6	880	6100	-	0.90	1	3	880	6100	-	0.90	-
920	1	8	930	7200	-	0.90	-	-	-	-	-	-	1	3	930	7200	-	0.90	-
940	-	-	-	-	-	-	1	6	940	7000	-	0.84	1	3	940	7000	-	0.84	-
960	-	-	-	-	-	-	1	6	960	9000	-	1.02	1	3	960	9000	-	1.02	-
980	-	-	-	-	-	-	1	6	980	9000	-	0.96	1	3	980	9000	-	0.96	-
TOTAL	13						16						29						
MEAN			757	4600	1350	1.04			832	5613	1624	0.96			798	5159	1567	0.99	55

Table 107. Test fishery results for Arctic charr from Ajaqutalik River (Igloolik area), 16-22 August 1986.

PRODUCTION

Quota	Harvest
1000 kg	603 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
133	139	8 ft	78.6	40.6	184

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male	51	-5.8530	3.3274	2.9443-3.7105	0.93
Female	82	-5.4899	3.2061	2.9042-3.5080	0.92
Total	133	-5.4096	3.1760	2.9841-3.3679	0.94

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
17-20	28	0.67	0.99	0.49	0.51

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.

Table 108. Biological data by age group for Arctic charr taken from Ajaqutalik River (Igloolik area), 16-22 August 1986.

AGE (YR)	MALES N	%	LENGTH(MM) MEAN	LENGTH(MM) SD	WEIGHT(G) MEAN	WEIGHT(G) SD	K	FEMALES N	%	LENGTH(MM) MEAN	LENGTH(MM) SD	WEIGHT(G) MEAN	WEIGHT(G) SD	K	COMBINED N	%	LENGTH(MM) MEAN	LENGTH(MM) SD	WEIGHT(G) MEAN	WEIGHT(G) SD	K	% FEMALE
10	-	-	-	-	-	-	-	2	4	500	28	1588	320	1.26	2	2	500	28	1588	320	1.26	-
11	2	5	765	120	6351	2566	1.39	2	4	605	64	2608	802	1.16	4	4	685	121	4479	2660	1.27	50
12	4	11	624	59	2835	988	1.14	4	7	574	56	2608	989	1.33	8	9	599	60	2722	923	1.24	50
13	2	5	700	14	3402	1283	0.98	6	11	619	11	2988	480	1.25	8	9	639	39	3092	661	1.19	75
14	2	5	763	74	6578	2245	1.45	3	6	593	38	2343	524	1.13	5	5	661	103	4037	2603	1.26	60
15	3	8	683	93	4309	2576	1.24	12	22	682	54	3971	1127	1.22	15	16	682	59	4039	1402	1.23	80
16	8	21	804	49	7059	1369	1.36	13	24	640	58	3104	944	1.16	21	23	702	97	4611	2250	1.24	62
17	7	18	809	55	6966	1301	1.31	7	13	660	41	3552	768	1.22	14	15	734	90	5259	2047	1.26	50
18	7	18	736	97	5281	2601	1.23	2	4	695	35	4536	0	1.36	9	10	727	87	5116	2277	1.26	22
19	1	3	800	-	7258	-	1.42	2	4	690	85	4182	2466	1.19	3	3	727	87	5207	2489	1.27	67
20	1	3	820	-	5897	-	1.07	1	2	700	-	3629	-	1.06	2	2	760	85	4763	1604	1.06	50
22	1	3	850	-	8165	-	1.33	-	-	-	-	-	-	-	1	1	850	-	8165	-	1.33	-
TOTAL	38							54							92							
MEAN			756	88	5801	2208	1.27			641	64	3291	1089	1.21			688	94	4328	2053	1.24	59
MEAN AGE		15.0								15.0							15.4					

Table 109. Biological data by length interval for Arctic charr taken from Ajaqutalik River (Igloolik area), 16-22 August 1986.

LENGTH INTERVAL (MM)	MALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	WEIGHT(G) SD	K	FEMALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	WEIGHT(G) SD	K	COMBINED N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	WEIGHT(G) SD	K	% FEMALE
450	-	-	-	-	-	-	1	1	480	1361	-	1.23	1	1	480	1361	-	1.23	-
500	-	-	-	-	-	-	2	2	520	1814	0	1.29	2	2	520	1814	0	1.29	-
550	1	2	575	2268	-	1.19	11	13	565	2180	323	1.20	12	9	566	2187	309	1.20	92
600	5	10	622	2631	344	1.09	21	26	625	2977	648	1.22	26	20	624	2911	612	1.19	81
650	5	10	672	3447	742	1.14	22	27	671	3818	590	1.26	27	20	671	3750	622	1.24	81
700	6	12	708	4385	446	1.23	13	16	710	4259	484	1.19	19	14	709	4299	464	1.20	68
750	9	18	767	6048	1407	1.33	12	15	756	5860	1015	1.35	21	16	761	5941	1170	1.35	57
800	13	25	821	7397	750	1.34	-	-	-	-	-	-	13	10	821	7397	750	1.34	-
850	11	22	855	7711	907	1.23	-	-	-	-	-	-	11	8	855	7711	907	1.23	-
900	1	2	930	7711	-	0.96	-	-	-	-	-	-	1	1	930	7711	-	0.96	-
TOTAL	51						82						133						
MEAN			769	5924	2067	1.25			658	3673	1316	1.24			700	4536	1972	1.25	62

Table 110. Test fishery results for lake trout from Contwoyto Lake (Coppermine area), 13-16 November 1986.

PRODUCTION

Quota	Harvest
450 kg	164 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
56	39	24-60	198.0	6.8	20.6

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male	24	-2.3504	2.0592	1.5092-2.6092	0.0001
Female	32	-4.9378	2.9865	2.5883-3.3847	0.0001
Total	56	-4.2064	2.7261	2.4175-3.3047	0.0001

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
21-26	14	0.34	0.98	0.29	0.71

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.

Table 111. Biological data by age group for lake trout taken from Contwoyto Lake (Coppermine area), 13-16 November 1986.

AGE (YR)	MALES N	MALES LENGTH(MM) MEAN	MALES LENGTH(MM) SD	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES LENGTH(MM) SD	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED LENGTH(MM) SD	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
14	1	500	-	1600	-	1.28	100	-	-	-	-	-	-	-	1	500	-	1600	-	1.28	100
15	1	530	-	1750	-	1.18	100	-	-	-	-	-	-	-	1	530	-	1750	-	1.18	100
17	2	615	35	2700	283	1.16	50	4	630	34	2738	579	1.08	100	6	625	31	2725	467	1.11	83
18	-	-	-	-	-	-	-	1	655	-	2800	-	1.00	100	1	655	-	2800	-	1.00	100
19	1	660	-	3000	-	1.04	0	5	632	55	2760	545	1.09	100	6	637	50	2800	497	1.08	83
20	7	620	22	2579	287	1.08	43	4	673	57	3175	359	1.06	100	11	639	45	2795	423	1.07	64
21	2	640	14	2525	601	0.97	100	2	725	120	4625	1945	1.18	100	4	683	85	3575	1688	1.08	100
22	1	670	-	2650	-	0.88	0	3	638	28	2700	100	1.04	100	4	646	28	2688	85	1.00	75
23	1	600	-	2700	-	1.25	100	1	640	-	2550	-	0.97	100	2	620	28	2625	106	1.11	100
24	1	640	-	2700	-	1.03	0	1	680	-	3500	-	1.11	100	2	660	28	3100	566	1.07	50
25	1	630	-	2200	-	0.88	0	-	-	-	-	-	-	-	1	630	-	2200	-	0.88	0
26	-	-	-	-	-	-	-	1	710	-	3850	-	1.08	100	1	710	-	3850	-	1.08	100
29	-	-	-	-	-	-	-	1	680	-	3000	-	0.95	100	1	680	-	3000	-	0.95	100
TOTAL	18							23							41						
MEAN		616	44	2506	411	1.08			657	53	3065	790	1.07			639	53	2820	703	1.07	
MEAN AGE		19.9							20.5							20.2					

Table 112. Biological data by length interval for lake trout taken from Contwoyto Lake (Coppermine area), 13-16 November 1986.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH(MM) MEAN	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
500	2	510	1600	0	1.21	100	-	-	-	-	-	-	2	510	1600	0	1.21	100
525	1	530	1750	-	1.18	100	-	-	-	-	-	-	1	530	1750	-	1.18	100
575	2	590	2300	283	1.12	100	3	590	2117	355	1.03	100	5	590	2190	305	1.07	100
600	6	603	2483	175	1.13	50	7	611	2621	241	1.15	100	13	608	2558	217	1.14	77
625	7	637	2736	275	1.06	29	5	637	2840	315	1.10	100	12	637	2779	283	1.07	58
650	5	656	2680	358	0.95	60	7	666	2943	151	0.99	100	12	662	2833	278	0.98	83
675	1	690	3000	-	0.91	0	5	680	3250	292	1.03	100	6	682	3208	280	1.01	83
700	-	-	-	-	-	-	2	710	3625	318	1.01	100	2	710	3625	318	1.01	100
750	-	-	-	-	-	-	1	750	3700	-	0.88	100	1	750	3700	-	0.88	100
800	-	-	-	-	-	-	1	810	6000	-	1.13	100	1	810	6000	-	1.13	100
950	-	-	-	-	-	-	1	970	11250	-	1.23	100	1	970	11250	-	1.23	100
TOTAL	24						32						56					
MEAN		616	2500	431	1.07			664	3248	1624	1.06			643	2928	1305	1.07	

Table 113. Test fishery results for lake whitefish from Stewart Lake (Norman Wells area), 2-4 October, 1987.

PRODUCTION

Quota		Harvest
200 kg	lake whitefish and lake trout	Total - 321 kg LT - 255 kg LWF - 48 kg NP - 18 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
34	139	N/A	N/A	N/A	N/A

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male					
Female					
Total	34	0.537	0.986	N/A	0.77

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
16-17	32	0.60	1.00	0.45	0.55

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.
N/A = Not Available.

Table 114. Biological data by age group for lake whitefish taken from Stewart Lake (Norman Wells area), 2-4 October 1987.

AGE (YR)	MALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	% FEMALE
9	1	8	410	-	1100	-	1.60	1	5	445	-	1400	-	1.59	2	6	428	25	1250	212	1.59	50
10	-	-	-	-	-	-	-	3	16	467	29	1633	252	1.60	3	9	467	29	1633	252	1.60	-
11	1	8	475	-	1500	-	1.40	3	16	433	19	1333	153	1.64	4	13	444	26	1375	150	1.58	75
12	1	8	390	-	1100	-	1.85	1	5	430	-	1300	-	1.64	2	6	410	28	1200	141	1.74	50
13	-	-	-	-	-	-	-	2	11	453	11	1350	212	1.47	2	6	453	11	1350	212	1.47	-
14	2	17	463	11	1450	71	1.47	4	21	466	25	1625	275	1.60	6	19	465	20	1567	234	1.55	67
15	4	33	441	3	1300	115	1.51	1	5	475	-	1700	-	1.59	6	19	455	22	1417	204	1.50	20
16	-	-	-	-	-	-	-	3	16	458	20	1400	100	1.46	3	9	458	20	1400	100	1.46	-
17	2	17	465	7	1500	141	1.49	1	5	440	-	1300	-	1.53	3	9	457	15	1433	153	1.50	33
18	1	8	465	-	1400	-	1.39	-	-	-	-	-	-	-	1	3	465	-	1400	-	1.39	-
TOTAL	12							19							32							
MEAN			447	26	1350	162	1.52			454	22	1474	218	1.57			453	24	1431	204	1.54	61
MEAN AGE	14.3									12.9							13.5					

Table 115. Biological data by length group for lake whitefish taken from Stewart Lake (Norman Wells area), 2-4 October 1987.

LENGTH INTERVAL (MM)	MALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	% FEMALE
140	-	-	-	-	-	-	1	5	140	500	-	18.2	1	3	140	500	-	18.2	-
390	1	8	390	1100	-	1.85	-	-	-	-	-	-	1	3	390	1100	-	1.85	-
410	1	8	410	1100	-	1.60	-	-	-	-	-	-	1	3	410	1100	-	1.60	-
420	-	-	-	-	-	-	2	9	423	1250	71	1.66	2	6	423	1250	71	1.66	-
430	-	-	-	-	-	-	1	5	430	1300	-	1.64	1	3	430	1300	-	1.64	-
440	4	33	441	1300	115	1.51	7	32	443	1400	82	1.61	11	31	442	1364	103	1.58	64
450	1	8	455	1400	-	1.49	4	18	454	1425	150	1.52	5	14	454	1420	130	1.52	80
460	2	17	463	1400	0	1.42	1	5	460	1200	-	1.23	3	9	462	1333	115	1.35	33
470	3	25	472	1533	58	1.46	2	9	473	1750	71	1.66	5	14	472	1620	130	1.54	40
480	-	-	-	-	-	-	2	9	480	1750	354	1.58	2	6	480	1750	354	1.58	-
490	-	-	-	-	-	-	-	-	-	-	-	-	1	3	490	1600	-	1.36	-
500	-	-	-	-	-	-	2	9	500	1900	0	1.52	2	6	500	1900	0	1.52	-
TOTAL	12						22						35						
MEAN			447	1350	162	1.52			441	1445	316	2.33			444	1417	271	2.02	65

Table 116. Test fishery results for lake trout from Stewart Lake (Norman Wells area), 2-4 October 1987.

PRODUCTION

Quota		Harvest
200 kg	lake whitefish and lake trout	Total - 321 kg LT - 255 kg LWF - 48 kg NP - 18 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
62	139	N/A	N/A	N/A	N/A

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male					
Female					
Total	60	-5.021	3.027	N/A	0.91

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
21-23	43	0.65	1.00	0.48	0.52

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.
N/A = Not available.

Table 117. Biological data by age group for lake trout taken from Stewart Lake (Norman Wells area), 2-4 October 1987.

AGE (YR)	MALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	% FEMALE
11	-	-	-	-	-	-	-	1	6	630	-	2600	-	1.04	1	2	630	-	2600	-	1.04	-
12	2	8	513	18	1500	0	1.12	-	-	-	-	-	-	-	2	5	513	18	1500	0	1.12	-
13	3	12	532	39	1567	208	1.04	-	-	-	-	-	-	-	3	7	532	39	1567	208	1.04	-
14	2	8	680	28	3800	424	1.21	-	-	-	-	-	-	-	2	5	680	28	3800	424	1.21	-
15	1	4	675	-	3300	-	1.07	-	-	-	-	-	-	-	1	2	675	-	3300	-	1.07	-
16	2	8	545	64	1800	707	1.08	-	-	-	-	-	-	-	2	5	545	64	1800	707	1.08	-
17	3	12	692	18	3667	503	1.11	4	22	770	75	5250	1484	1.12	7	16	736	69	4571	1379	1.12	57
18	3	12	717	58	4167	751	1.13	2	11	668	11	3200	283	1.08	5	12	697	49	3780	763	1.11	40
19	-	-	-	-	-	-	-	2	11	763	11	5300	283	1.20	2	5	763	11	5300	283	1.20	-
20	4	16	734	59	5000	2688	1.20	4	22	783	78	5200	860	1.10	8	19	758	69	5100	1851	1.15	50
21	2	8	635	7	2850	212	1.11	4	22	754	21	4650	661	1.08	6	14	714	63	4050	1065	1.09	67
22	1	4	720	-	4300	-	1.15	-	-	-	-	-	-	-	1	2	720	-	4300	-	1.15	-
23	1	4	890	-	7900	-	1.12	-	-	-	-	-	-	-	1	2	890	-	7900	-	1.12	-
28	1	4	900	-	9100	-	1.25	-	-	-	-	-	-	-	1	2	900	-	9100	-	1.25	-
30	-	-	-	-	-	-	-	1	6	840	-	7900	-	1.33	1	2	840	-	7900	-	1.33	-
TOTAL	25							18							43							
MEAN			667	111	3708	2149	1.13			753	68	4883	1367	1.12			703	104	4200	1934	1.13	42
MEAN AGE		17.5								19.3							18.3					

Table 118. Biological data by length group for lake trout taken from Stewart Lake (Norman Wells area), 2-4 October 1987.

LENGTH INTERVAL (MM)	MALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	% FEMALE
500	4	12	505	1425	96	1.11	-	-	-	-	-	-	4	7	505	1425	96	1.11	-
525	3	9	533	1533	58	1.01	1	4	540	3200	-	2.03	4	7	535	1950	835	1.27	25
575	2	6	583	2050	354	1.03	-	-	-	-	-	-	2	3	583	2050	354	1.03	-
625	3	9	633	2967	252	1.17	1	4	630	2600	-	1.04	4	7	633	2875	275	1.14	25
650	3	9	657	3333	153	1.18	2	7	665	3700	424	1.26	5	8	660	3480	311	1.21	40
675	5	15	682	3700	515	1.16	3	11	678	3467	503	1.11	8	13	681	3613	488	1.14	38
700	4	12	713	3950	311	1.09	3	11	710	4233	115	1.18	7	11	711	4071	275	1.13	43
725	3	9	737	4467	306	1.12	6	21	737	4367	314	1.09	9	15	737	4400	296	1.10	67
750	3	9	752	4400	346	1.04	5	18	759	5000	485	1.14	8	13	756	4775	515	1.10	63
775	-	-	-	-	-	-	1	4	780	5400	-	1.14	1	2	780	5400	-	1.14	-
800	1	3	800	9000	-	1.76	3	11	808	6800	781	1.29	4	7	806	7350	1271	1.41	75
825	-	-	-	-	-	-	2	7	840	7200	990	1.21	2	3	840	7200	990	1.21	-
875	1	3	890	7900	-	1.12	1	4	885	5400	-	0.78	2	3	888	6650	1768	0.95	50
900	1	3	900	9100	-	1.25	-	-	-	-	-	-	1	2	900	9100	-	1.25	-
TOTAL	33						28						61						
MEAN			666	3642	1958	1.13			738	4754	1305	1.18			699	4152	1767	1.15	46

Table 119. Test fishery results for Arctic charr from Unnamed Lake (65-17N,64-05W)(Anaktuayuit)(Pangnirtung area), 13 March 1987.

PRODUCTION

Quota	Harvest
900 kg	400.6 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
114	139	N/A	201.66	13.6	47.7

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b\ (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male	55	-4.2904	2.7579	2.4194-3.0964	0.91
Female	44	-1.4354	1.7335	1.1660-2.3010	0.69
Total	100	-4.1749	2.7127	2.4392-2.9862	0.89

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
18-21	33	0.65	0.99	0.48	0.52

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.
N/A = Not Available.

Table 120. Biological data by age group for Arctic charr taken from Unnamed Lake (65-17N,64-05W)(Anaktuayuit)(Pangnirtung area), 13 March 1987.

AGE (YR)	MALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	% FEMALE
13	1	3	590	-	2200	-	1.07	-	-	-	-	-	-	-	1	2	590	-	2200	-	1.07	-
14	1	3	630	-	2600	-	1.04	2	7	674	76	2975	389	0.99	3	5	659	60	2850	350	1.01	67
15	2	5	615	7	2600	0	1.12	-	-	-	-	-	-	-	2	3	615	7	2600	0	1.12	-
16	8	22	700	46	3700	571	1.08	4	14	583	39	2275	310	1.15	12	18	661	72	3225	852	1.10	33
17	6	16	745	46	4267	712	1.03	6	21	657	49	2967	432	1.05	12	18	701	65	3617	881	1.04	50
18	12	32	749	34	4433	736	1.05	8	29	639	27	2775	354	1.06	20	31	705	63	3770	1027	1.05	40
19	4	11	753	29	4475	556	1.05	5	18	674	25	3200	620	1.04	9	14	709	48	3767	872	1.04	56
20	-	-	-	-	-	-	-	1	4	660	-	3000	-	1.04	1	2	660	-	3000	-	1.04	-
21	1	3	800	-	4900	-	0.96	2	7	670	28	2200	849	0.72	3	5	713	78	3100	1670	0.80	67
22	2	5	790	14	5450	354	1.11	-	-	-	-	-	-	-	2	3	790	14	5450	354	1.11	-
TOTAL	37							28							65							
MEAN			727	59	4111	910	1.06			646	45	2802	524	1.04			692	66	3547	1004	1.05	43
MEAN AGE	17.7									17.7							17.5					

Table 121. Biological data by length interval for Arctic charr taken from Unnamed Lake (65-17N,64-05W)(Anaktuayuit) (Pangnirtung area), 13 March 1987.

LENGTH INTERVAL (MM)	MALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	% FEMALE
500	-	-	-	-	-	-	1	2	540	2000	-	1.27	1	1	540	2000	-	1.27	-
550	1	2	590	2200	-	1.07	1	2	560	2100	-	1.20	2	2	575	2150	71	1.13	50
600	4	7	625	2600	0	1.07	17	39	622	2562	150	1.07	21	21	622	2569	135	1.07	81
650	8	15	669	3263	334	1.09	18	41	673	3006	510	0.99	27	27	672	3096	467	1.02	69
700	18	33	726	3883	438	1.02	6	14	719	3267	334	0.88	24	24	724	3729	491	0.98	25
750	20	36	770	4813	412	1.05	1	2	750	3100	-	0.73	21	21	769	4731	548	1.04	5
800	4	7	800	5100	183	1.00	-	-	-	-	-	-	4	4	800	5100	183	1.00	-
TOTAL	55						44						100						
MEAN			729	4095	867	1.04			655	2828	472	1.01			696	3531	950	1.03	44

Table 122. Test fishery results for Arctic charr from Unnamed Lake (65-05N,63-42W)(Anguyatutit)(Pangnirtung area), 16 March 1987.

PRODUCTION

Quota	Harvest
900 kg	281.2 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
103	139	N/A	559.96	4.41	12.05

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b\ (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male	60	-4.1098	2.6881	2.4909-2.8853	0.96
Female	39	-4.7135	2.9068	2.5325-3.2811	0.93
Total	100	-4.1307	2.6965	2.5416-2.8544	0.96

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
17-20	31	0.21	0.95	0.19	0.81

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.
N/A = Not Available.

Table 123. Biological data by age group for Arctic charr taken from Unnamed Lake (65-05N,63-42W)(Anguyatutit)(Pangnirtung area), 16 March 1987.

AGE (YR)	MALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	% FEMALE
11	1	2	420	-	800	-	1.08	-	-	-	-	-	-	-	1	1	420	-	800	-	1.08	-
12	1	2	470	-	1200	-	1.16	-	-	-	-	-	-	-	1	1	470	-	1200	-	1.16	-
13	2	5	435	35	950	212	1.15	2	8	520	28	1500	141	1.08	4	6	478	56	1225	350	1.11	5
14	2	5	625	106	2550	1202	1.01	3	12	600	20	2267	451	1.04	5	7	610	57	2380	698	1.03	60
15	8	18	628	23	2700	227	1.09	2	8	565	7	2050	71	1.14	10	14	615	33	2570	340	1.10	20
16	7	16	646	56	2957	680	1.08	7	27	614	39	2557	583	1.09	14	20	630	49	2757	643	1.08	50
17	3	7	693	50	3133	751	0.93	5	19	606	45	2380	540	1.05	9	13	637	59	2689	653	1.03	63
18	6	14	700	49	3317	471	0.97	4	15	590	26	2200	316	1.07	10	14	656	69	2870	699	1.01	40
19	3	7	677	71	3500	1153	1.11	2	8	630	14	2750	71	1.10	5	7	658	57	3200	914	1.11	40
20	7	16	743	22	4229	629	1.04	-	-	-	-	-	-	-	7	10	743	22	4229	629	1.04	-
21	4	9	688	46	3325	419	1.03	1	4	620	-	2500	-	1.05	5	7	674	50	3160	518	1.03	20
TOTAL	44							26							71							
MEAN			655	89	3045	992	1.05			598	40	2327	502	1.08			633	79	2780	903	1.06	37
MEAN AGE	16.4									16.4							16.8					

Table 124. Biological data by length interval for Arctic charr taken from Unnamed Lake (65-05N,63-42W)(Anguyatutit) (Pangnirtung area), 16 March 1987.

LENGTH INTERVAL (MM)	MALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	% FEMALE
400	3	5	420	833	58	1.12	-	-	-	-	-	-	3	3	420	833	58	1.12	-
450	2	3	465	1150	71	1.14	-	-	-	-	-	-	2	2	465	1150	71	1.14	-
500	1	2	530	1600	-	1.07	3	8	523	1500	100	1.06	4	4	525	1525	96	1.06	75
550	1	2	550	1700	-	1.02	6	15	567	1933	121	1.06	7	7	564	1900	141	1.06	86
600	16	27	625	2681	210	1.10	26	67	622	2581	200	1.07	43	43	623	2626	209	1.08	62
650	13	22	672	3023	337	1.00	4	10	668	3150	420	1.06	17	17	671	3053	348	1.01	24
700	19	32	719	3763	608	1.01	-	-	-	-	-	-	19	19	719	3763	608	1.01	-
750	5	8	762	4140	635	0.94	-	-	-	-	-	-	5	5	762	4140	635	0.94	-
TOTAL	60						39						100						
MEAN			658	3042	956	1.04			611	2456	468	1.07			639	2812	843	1.05	39

Table 125. Biological data by length interval for Greenland halibut taken from Cumberland Sound (Pangnirtung area), May,1986.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
350	1	1	395	540	-
400	1	1	413	630	-
500	3	3	531	1600	400
550	3	3	573	1633	321
600	18	17	626	2456	475
650	38	36	676	3096	319
700	30	28	721	3755	410
750	12	11	771	4650	528
TOTAL	106				
MEAN			679	3219	924

Table 126. Biological data by age group for Greenland halibut taken from Cumberland Sound (Pangnirtung area), March, 1987.

AGE (YR)	MALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	% FEMALE
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	491	9	1267	126	1.07	-
8	1	20	532	-	1850	-	1.23	1	2	527	-	1600	-	1.09	15	7	528	23	1623	228	1.10	50
9	3	60	610	26	2417	306	1.06	24	46	603	29	2429	385	1.10	60	26	608	26	2455	367	1.09	89
10	1	20	610	-	2050	-	0.90	17	33	667	21	3238	404	1.08	59	26	669	25	3293	530	1.09	94
11	-	-	-	-	-	-	-	4	8	726	33	4250	759	1.10	56	24	721	24	4111	616	1.09	-
12	-	-	-	-	-	-	-	4	8	769	23	4950	867	1.08	23	10	778	20	5433	711	1.15	-
13	-	-	-	-	-	-	-	2	4	824	9	6850	495	1.23	9	4	849	41	7383	1350	1.20	-
14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	823	60	6433	1400	1.14	-
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0	870	-	7800	-	1.18	-
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0	1050	-	13600	-	1.17	-
TOTAL	5							52							230							
MEAN			594	39	2230	342	1.06			653	69	3182	1175	1.10			677	87	3618	1615	1.10	91
MEAN AGE		9.8								9.8							10.2					

Table 127. Biological data by length interval for Greenland halibut taken from Cumberland Sound (Pangnirtung area), March, 1987.

LENGTH INTERVAL (MM)	MALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	% FEMALE
450	-	-	-	-	-	-	-	-	-	-	-	-	3	1	483	1200	50	1.07	-
500	1	20	532	1850	-	1.23	2	4	538	1650	71	1.06	13	6	523	1592	147	1.11	67
550	1	20	583	2150	-	1.09	12	23	584	2167	134	1.09	22	10	577	2064	237	1.07	92
600	3	60	619	2383	351	1.00	11	21	622	2755	265	1.14	49	21	624	2636	303	1.09	79
650	-	-	-	-	-	-	18	35	673	3275	361	1.07	49	21	672	3310	328	1.09	-
700	-	-	-	-	-	-	3	6	722	3950	304	1.05	50	22	718	4052	410	1.09	-
750	-	-	-	-	-	-	4	8	779	5338	335	1.13	27	12	771	5252	614	1.14	-
800	-	-	-	-	-	-	2	4	824	6850	495	1.23	10	4	813	6430	392	1.20	-
850	-	-	-	-	-	-	-	-	-	-	-	-	5	2	874	7600	476	1.14	-
900	-	-	-	-	-	-	-	-	-	-	-	-	1	0	925	10700	-	1.35	-
1050	-	-	-	-	-	-	-	-	-	-	-	-	1	0	1050	13600	-	1.17	-
TOTAL	5						52						230						
MEAN			594	2230	342	1.06			653	3182	1175	1.10			677	3618	1615	1.10	91

Table 128. Test fishery results for Arctic charr from Unnamed Lake (65-21N,67-32W)(Qanayutuk)(Pangnirtung area), 28 February to 1 March 1989.

PRODUCTION

Quota	Harvest
1 000 kg	121.3 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
41	139	N/A	65.8	14.9	44.2

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male	29	-3.8457	2.6003	2.1392-3.0614	0.91
Female	12	-3.6175	2.5149	1.3701-3.6597	0.84
Total	41	-3.9773	2.6462	2.2877-3.0047	0.92

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
17-19	13	0.44	0.99	0.36	0.64

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.
N/A = Not Available.

Table 129. Biological data by age group for Arctic charr taken from Unnamed Lake (65-21N,67-32W)(Qanayutuk)(Pangnirtung area), 28 February to 1 March 1989.

AGE (YR)	MALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	% FEMALE
12	-	-	-	-	-	-	-	1	9	630	-	2600	-	1.04	1	3	630	-	2600	-	1.04	-
13	-	-	-	-	-	-	-	1	9	545	-	1800	-	1.11	1	3	545	-	1800	-	1.11	-
14	3	12	638	29	2600	300	1.00	1	9	600	-	2400	-	1.11	4	11	629	31	2550	265	1.03	25
15	1	4	645	-	2700	-	1.01	3	27	647	32	2900	436	1.07	4	11	646	26	2850	370	1.06	75
16	11	44	652	43	2964	488	1.07	-	-	-	-	-	-	-	11	31	652	43	2964	488	1.07	-
17	4	16	689	28	3450	252	1.06	1	9	565	-	2150	-	1.19	5	14	664	60	3190	621	1.08	20
18	3	12	680	61	3433	551	1.10	3	27	588	20	2200	458	1.07	6	17	634	65	2817	813	1.09	50
19	1	4	690	-	3700	-	1.13	1	9	610	-	2600	-	1.15	2	6	650	57	3150	778	1.14	50
20	2	8	740	42	3950	495	0.97	-	-	-	-	-	-	-	2	6	740	42	3950	495	0.97	-
TOTAL	25							11							36							
MEAN			668	46	3152	551	1.05			605	38	2441	464	1.10			649	52	2935	616	1.07	31
MEAN AGE	16.6									15.8							16.3					

Table 130. Biological data by length interval for Arctic charr taken from Unnamed Lake (65-21N,67-32W)(Qanayutuk)(Pangnirtung area), 28 February to 1 March 1989.

LENGTH INTERVAL (MM)	MALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	% FEMALE
500	-	-	-	-	-	-	1	8	545	1800	-	1.11	1	2	545	1800	-	1.11	-
550	4	14	580	2188	144	1.12	3	25	573	2017	189	1.08	7	17	577	2114	175	1.10	43
600	4	14	620	2550	300	1.07	6	50	613	2550	164	1.11	10	24	616	2550	212	1.09	60
650	11	38	665	3182	322	1.08	2	17	665	3000	566	1.02	13	32	665	3154	343	1.07	15
700	9	31	712	3767	600	1.04	-	-	-	-	-	-	9	22	712	3767	600	1.04	-
750	1	3	770	4300	-	0.94	-	-	-	-	-	-	1	2	770	4300	-	0.94	-
TOTAL	29						12						41						
MEAN			665	3178	710	1.07			606	2429	444	1.08			648	2959	726	1.07	29

Table 131. Test fishery results for Arctic charr from Curtis River (Repulse Bay area), 13-22 November 1986.

PRODUCTION

Quota	Harvest
2300 kg	851.9 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
321	139	N/A	965.98	8.6	23.0

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male	61	-5.5209	3.2168	2.9704-3.4632	0.96
Female	45	-5.0800	3.0574	2.7879-3.3269	0.96
Total	106	-5.3716	3.1629	2.9843-3.3415	0.96

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
11-14	27	0.59	0.99	0.45	0.55

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.
N/A = Not Available.

Table 132. Biological data by age group for Arctic charr taken from Curtis River (Repulse Bay area), 13-22 November 1986.

AGE (YR)	MALES N	MALES LENGTH(MM) MEAN	MALES LENGTH(MM) SD	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES LENGTH(MM) SD	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED LENGTH(MM) SD	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
8	8	533	14	1738	158	1.15	88	2	544	25	1875	389	1.16	100	10	535	15	1765	199	1.15	90
9	8	559	36	2238	682	1.27	100	8	546	22	1950	214	1.19	100	16	552	30	2094	511	1.23	100
10	14	605	37	2686	508	1.20	100	11	572	38	2264	474	1.20	100	25	590	40	2500	528	1.20	100
11	7	643	45	3350	746	1.24	100	5	569	40	2290	619	1.21	100	12	612	56	2908	861	1.23	100
12	9	655	69	3794	1591	1.28	100	1	579	-	2400	-	1.24	100	10	647	69	3655	1563	1.27	100
13	1	563	-	2200	-	1.23	100	1	538	-	2100	-	1.35	100	2	551	18	2150	71	1.29	100
14	1	665	-	3550	-	1.21	100	2	621	2	3225	106	1.35	100	3	635	26	3333	202	1.30	100
18	1	706	-	4100	-	1.17	100	1	632	-	2750	-	1.09	100	2	669	52	3425	955	1.13	100
19	1	722	-	4100	-	1.09	100	-	-	-	-	-	-	-	1	722	-	4100	-	1.09	100
TOTAL	50							31							81						
MEAN		605	64	2819	1082	1.22			567	37	2239	499	1.21			590	58	2597	944	1.22	
MEAN AGE	10.5							10.5							10.5						

Table 133. Biological data by length interval for Arctic charr taken from Curtis River (Repulse Bay area), 13-22 November 1986.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH(MM) MEAN	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
300	-	-	-	-	-	-	-	-	-	-	-	-	1	315	300	-	0.96	0
350	-	-	-	-	-	-	-	-	-	-	-	-	1	373	550	-	1.06	0
450	1	496	1350	-	1.11	100	-	-	-	-	-	-	20	482	1293	191	1.14	5
500	15	533	1857	385	1.22	93	12	527	1775	207	1.21	100	70	528	1738	248	1.18	37
550	17	577	2244	227	1.16	100	15	572	2247	286	1.20	100	86	575	2270	275	1.19	37
600	12	624	3008	340	1.23	100	13	626	2965	264	1.21	100	76	624	2847	333	1.17	33
650	9	677	3767	415	1.22	100	2	671	3625	1237	1.18	100	38	673	3683	562	1.20	29
700	6	720	4967	773	1.33	100	3	718	4500	740	1.21	100	17	718	4788	608	1.29	53
750	1	787	5750	-	1.18	100	-	-	-	-	-	-	10	775	5580	374	1.20	10
800	-	-	-	-	-	-	-	-	-	-	-	-	2	821	6950	1626	1.24	0
TOTAL	61						45						321					
MEAN		606	2834	1118	1.21			590	2540	821	1.20			596	2651	1122	1.19	

Table 134. Test fishery results for Arctic charr from Curtis River (Repulse Bay area), 15-22 October 1987.

PRODUCTION

Quota	Harvest
2 500 kg	1 300 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
488	139	N/A	1 066.6	10.5	N/A

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male	59	-5.7803	3.2971	3.0741-3.5201	0.97
Female	45	-4.1524	2.7071	2.2922-3.1220	0.90
Total	488	-5.0179	3.0309	2.9364-3.1254	0.94

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
10-18	54	0.27	0.96	0.24	0.76

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.
N/A = Not Available.

Table 135. Biological data by age group for Arctic charr taken from Curtis River (Repulse Bay area), 15-22 October 1987.

AGE (YR)	MALES N	MALES LENGTH(MM) MEAN	MALES LENGTH(MM) SD	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES LENGTH(MM) SD	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED LENGTH(MM) SD	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
8	7	553	23	1871	209	1.10	100	5	519	32	1620	337	1.15	100	12	539	31	1767	312	1.12	100
9	14	556	31	1921	389	1.11	100	7	551	32	1864	225	1.13	100	23	555	30	1898	323	1.11	100
10	9	573	21	2100	249	1.11	100	7	540	53	1721	529	1.07	100	16	559	41	1934	427	1.09	100
11	5	618	44	2940	806	1.22	100	4	561	38	2013	379	1.13	100	9	593	49	2528	786	1.18	100
12	3	683	51	4017	1227	1.23	100	1	610	-	2450	-	1.08	100	4	665	56	3625	1272	1.19	100
13	5	699	39	3980	1209	1.14	100	2	595	42	2100	566	0.98	100	7	669	62	3443	1367	1.09	100
14	4	709	58	4013	1181	1.10	100	4	604	50	2475	712	1.11	100	8	656	75	3244	1221	1.10	100
15	1	665	-	3200	-	1.09	100	2	603	53	2250	707	1.01	100	3	623	52	2567	742	1.04	100
16	3	713	55	3867	729	1.06	100	1	680	-	3300	-	1.05	100	4	705	48	3725	659	1.06	100
17	-	-	-	-	-	-	-	1	635	-	2900	-	1.13	100	1	635	-	2900	-	1.13	100
18	-	-	-	-	-	-	-	2	620	14	2850	919	1.18	100	2	620	14	2850	919	1.18	100
19	1	725	-	4650	-	1.22	100	-	-	-	-	-	-	-	1	725	-	4650	-	1.22	100
TOTAL	52							36							90						
MEAN		612	73	2713	1127	1.13			568	53	2061	598	1.10			593	68	2433	989	1.12	
MEAN AGE		11.4							11.4							11.0					

Table 136. Biological data by length interval for Arctic charr taken from Curtis River (Repulse Bay area), 15-22 October 1987.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH(MM) MEAN	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
250	-	-	-	-	-	-	-	-	-	-	-	-	1	255	150	-	0.90	0
400	1	400	495	-	0.77	100	-	-	-	-	-	-	8	426	949	383	1.22	13
450	-	-	-	-	-	-	3	475	1183	257	1.09	100	14	479	1229	175	1.12	21
500	7	526	1657	315	1.14	100	11	529	1809	379	1.22	100	104	529	1755	265	1.19	17
550	24	564	1971	188	1.09	100	15	571	1980	223	1.06	100	124	570	2170	332	1.17	31
600	11	618	2664	322	1.13	100	11	623	2550	393	1.05	100	124	620	2857	439	1.20	18
650	6	668	3367	423	1.13	100	5	672	3320	377	1.09	100	62	670	3498	448	1.16	18
700	7	721	4350	570	1.16	100	-	-	-	-	-	-	30	718	4443	672	1.20	23
750	3	757	5183	742	1.19	100	-	-	-	-	-	-	20	767	5168	894	1.15	15
800	-	-	-	-	-	-	-	-	-	-	-	-	1	800	5950	-	1.16	0
TOTAL	59						45						488					
MEAN		606	2625	1111	1.12			578	2173	630	1.10			598	2644	1053	1.18	

Table 137. Test fishery results for Arctic charr from Unnamed Bay (63-34N,90-41W)(Kangiqsurjuk)(Rankin Inlet area), 26-28 August 1988.

PRODUCTION

Quota	Harvest
Nil - No licence issued for 1988 - Licence issued in 1987 but not fished	236 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
83	139	N/A	N/A	N/A	N/A

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male					
Female		DRESSED WEIGHTS			
Total					

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
10-12	32	0.39	0.99	0.32	0.68

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.
N/A = Not Available.

Table 138. Biological data by age group for Arctic charr taken from Unnamed Bay (63-34N,90-41W)(Kangiqsurjuk) (Rankin Inlet area), 26-28 August 1988.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
5	1	1	405	-	650	-
7	5	7	463	29	1090	258
8	11	16	519	43	1655	490
9	14	21	560	27	1996	342
10	18	27	602	39	2378	430
11	8	12	590	39	2413	308
12	6	9	633	31	2825	556
13	4	6	602	53	2288	502
TOTAL	67					
MEAN			568	61	2096	619
MEAN AGE	9.6					

Table 139. Biological data by age group for Arctic charr taken from Unnamed Bay (63-34N,90-41W)(Kangiqsurjuk) (Rankin Inlet area), 26-28 August 1988.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
400	4	5	427	838	165
450	10	12	477	1195	134
500	13	16	524	1723	281
550	29	35	575	2178	235
600	22	27	624	2636	329
650	5	6	670	3000	468
TOTAL	83				
MEAN			567	2095	633

Table 140. Test fishery results for Arctic charr from Tasirjuaq River (Repulse Bay area), 1-8 November 1986.

PRODUCTION

Quota	Harvest
2300 kg	2237 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
843	139	8 ft	1334	15.2	40.3

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male	70	-4.6944	2.8969	2.6475-3.1463	0.94
Female	34	-3.5873	2.4969	1.9989-2.9949	0.88
Total	105	-0.0477	1.2406	1.1082-1.3730	0.88

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
14-18	21	0.34	0.85	0.29	0.71

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.

Table 141. Biological data by age group for Arctic charr taken from Tasirjuaq River (Repulse Bay area), 1-8 November 1986.

AGE (YR)	MALES N	MALES LENGTH(MM) MEAN	MALES LENGTH(MM) SD	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES LENGTH(MM) SD	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED LENGTH(MM) SD	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
8	3	471	57	1083	451	0.99	100	-	-	-	-	-	-	-	3	471	57	1083	451	0.99	100
9	1	507	-	1250	-	0.96	100	-	-	-	-	-	-	-	1	507	-	1250	-	0.96	100
10	9	591	44	2456	633	1.17	100	2	580	9	2375	35	1.22	100	11	589	40	2441	567	1.18	100
11	5	594	49	2600	678	1.21	100	5	553	57	1990	624	1.13	100	10	574	55	2295	693	1.17	100
12	6	596	45	2442	583	1.13	100	7	587	27	2586	487	1.27	100	13	591	35	2519	515	1.21	100
13	3	638	68	3350	1195	1.25	100	5	587	17	2230	430	1.09	100	8	606	47	2650	922	1.15	100
14	3	624	117	3133	1824	1.19	100	2	638	3	3075	106	1.18	100	5	630	83	3110	1291	1.19	100
15	4	679	65	3813	1106	1.19	100	3	639	33	3167	126	1.22	100	7	662	54	3536	858	1.20	100
16	3	767	36	5383	1351	1.18	100	2	611	18	2400	283	1.05	100	5	704	90	4190	1898	1.13	100
17	1	778	-	5400	-	1.15	100	2	613	3	2525	35	1.10	100	3	668	95	3483	1660	1.11	100
18	-	-	-	-	-	-	-	1	677	-	3500	-	1.13	100	1	677	-	3500	-	1.13	100
19	1	734	-	4550	-	1.15	100	-	-	-	-	-	-	-	1	734	-	4550	-	1.15	100
TOTAL	39							29							68						
MEAN		618	90	2950	1372	1.16			596	42	2516	554	1.17			608	73	2765	1115	1.16	
MEAN AGE	13.1							13.1							12.6						

Table 142. Biological data by length interval for Arctic charr taken from Tasirjuaq River (Repulse Bay area), 1-8 November 1986.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH(MM) MEAN	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
250	-	-	-	-	-	-	-	-	-	-	-	-	1	280	200	-	0.91	0
300	-	-	-	-	-	-	-	-	-	-	-	-	2	319	275	106	0.82	0
350	-	-	-	-	-	-	-	-	-	-	-	-	4	370	488	63	0.96	0
400	-	-	-	-	-	-	-	-	-	-	-	-	8	416	725	46	1.00	0
450	-	-	-	-	-	-	-	-	-	-	-	-	15	480	1247	259	1.14	0
500	3	532	1483	333	0.97	100	-	-	-	-	-	-	31	533	1577	194	1.04	10
550	7	577	2029	214	1.05	100	8	576	2000	196	1.04	100	184	580	2076	214	1.06	8
600	23	623	2583	272	1.07	100	21	625	2510	220	1.03	100	313	625	2485	274	1.02	14
650	24	674	3152	292	1.03	100	5	662	2790	275	0.96	100	170	672	3211	1907	1.06	17
700	11	721	3795	321	1.02	100	1	713	3600	-	0.99	100	87	723	3851	333	1.02	14
750	2	787	5175	35	1.06	100	-	-	-	-	-	-	28	769	4341	510	0.95	7
TOTAL	70						35						843					
MEAN		652	2940	755	1.04			622	2464	388	1.02			629	2656	1155	1.04	

Table 143. Test fishery results for Arctic charr from Tasirjuaq River (Repulse Bay area), 13-18 November 1987.

PRODUCTION

Quota	Harvest
2 500 kg	1 250 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE[1]	CPE[2]
535	139	N/A	861.18	14.9	N/A

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male					
Female					
Total	532	-4.4579	2.8126	2.7522-2.8730	0.97

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
	Not	available			

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.
N/A = Not Available.

Table 144. Biological data by length interval for Arctic charr taken from Tasirjuaq River (Repulse Bay area), 13-18 November 1987.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	ROUND WEIGHT(G) MEAN	ROUND WEIGHT(G) SD	K
300	1	0	320	350	-	1.07
350	3	1	382	633	29	1.14
400	7	1	420	800	138	1.07
450	22	4	479	1225	179	1.11
500	58	11	526	1578	174	1.08
550	174	33	574	2026	212	1.07
600	171	32	619	2477	229	1.04
650	47	9	665	3031	340	1.03
700	37	7	719	3799	386	1.02
750	10	2	764	4465	312	1.00
800	2	0	805	5100	778	0.98
TOTAL	532					
MEAN			598	2331	756	1.06

Table 145. Test fishery results for Arctic charr from Ross Inlet (Repulse Bay area), 24-29 November 1986.

PRODUCTION

Quota	Harvest
2300 kg	248.8 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
88	139	N/A	427.66	5.5	14.9

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male	52	-5.6223	3.2435	3.0871-3.3999	0.98
Female	36	-4.8007	2.9494	2.2627-3.6361	0.83
Total	88	-5.4982	3.1999	3.0181-3.3817	0.96

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
12-18	42	0.30	0.96	0.26	0.74

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.
N/A = Not Available.

Table 146. Biological data by age group for Arctic charr taken from Ross Inlet (Repulse Bay area), 24-29 November 1986.

AGE (YR)	MALES N	MALES LENGTH(MM) MEAN	MALES LENGTH(MM) SD	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES LENGTH(MM) SD	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED LENGTH(MM) SD	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
11	1	606	-	2300	-	1.03	100	-	-	-	-	-	-	-	1	606	-	2300	-	1.03	100
12	12	597	44	2221	531	1.02	100	-	-	-	-	-	-	-	12	597	44	2221	531	1.02	100
13	10	622	36	2570	439	1.06	100	4	586	14	2013	202	1.00	100	14	612	35	2411	460	1.04	100
14	6	676	39	3508	312	1.15	100	2	629	3	2625	35	1.05	100	8	664	39	3288	487	1.13	100
15	11	663	66	3182	852	1.07	100	9	606	34	2283	380	1.02	100	20	637	60	2778	808	1.05	100
16	9	685	52	3256	847	1.00	100	5	621	31	2350	71	0.99	100	14	662	54	2932	804	0.99	100
17	9	683	52	3289	794	1.02	100	1	610	-	2350	-	1.04	100	10	676	54	3195	805	1.02	100
18	2	705	0	3875	35	1.11	100	1	713	-	3600	-	0.99	100	3	708	5	3783	161	1.07	100
19	-	-	-	-	-	-	-	1	638	-	2850	-	1.10	100	1	638	-	2850	-	1.10	100
TOTAL	60							23							83						
MEAN		651	59	2956	799	1.05			614	36	2365	413	1.02			641	56	2792	759	1.04	
MEAN AGE	15.2							15.2							14.7						

Table 147. Biological data by length interval for Arctic charr taken from Ross Inlet (Repulse Bay area), 24-29 November 1986.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH(MM) MEAN	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
400	1	414	650	-	0.92	100	-	-	-	-	-	-	1	414	650	-	0.92	100
450	3	482	1233	236	1.10	100	1	453	950	-	1.02	100	4	475	1163	239	1.08	100
500	8	524	1581	212	1.09	100	3	546	1917	104	1.18	100	11	530	1673	241	1.12	100
550	11	581	2250	315	1.14	100	17	578	2265	245	1.17	100	28	579	2259	269	1.16	100
600	9	617	2783	373	1.18	100	12	620	2730	480	1.15	100	21	619	2753	428	1.16	100
650	6	670	3608	585	1.20	100	3	664	3317	176	1.13	100	9	668	3511	493	1.17	100
700	6	731	4458	481	1.14	100	-	-	-	-	-	-	6	731	4458	481	1.14	100
750	7	779	5571	460	1.18	100	-	-	-	-	-	-	7	779	5571	460	1.18	100
800	1	811	6700	-	1.26	100	-	-	-	-	-	-	1	811	6700	-	1.26	100
TOTAL	52						36						88					
MEAN		628	3094	1526	1.15			593	2442	547	1.16			614	2827	1261	1.15	

Table 148. Test fishery results for Arctic charr from Ross Inlet (Repulse Bay area), 15-24 October 1987.

PRODUCTION

Quota	Harvest
2 500 kg	1 300 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
455	139	N/A	252.1	36.2	N/A

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male	59	-4.6509	2.8980	2.7399-3.0561	0.98
Female	46	-3.6877	2.5558	2.1623-2.9493	0.89
Total	455	-4.5164	2.8554	2.7855-2.9313	0.96

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
12-19	54	0.20	0.82	0.18	0.82

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.
N/A = Not Available.

Table 149. Biological data by age group for Arctic charr taken from Ross Inlet (Repulse Bay area), 15-24 October 1987.

AGE (YR)	MALES N	MALES LENGTH(MM) MEAN	MALES LENGTH(MM) SD	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES LENGTH(MM) SD	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED LENGTH(MM) SD	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
7	-	-	-	-	-	-	-	1	555	-	1800	-	1.05	100	1	555	-	1800	-	1.05	100
8	2	475	64	1300	424	1.20	100	1	520	-	1700	-	1.21	100	3	490	52	1433	379	1.20	100
9	7	531	51	1807	475	1.19	100	1	580	-	2400	-	1.23	100	8	537	50	1881	487	1.19	100
10	6	608	66	2767	894	1.20	100	1	550	-	2050	-	1.23	100	7	599	64	2664	860	1.21	100
11	6	612	34	2583	557	1.12	100	7	561	31	2193	345	1.24	100	13	584	41	2373	479	1.18	100
12	9	602	36	2639	469	1.20	100	5	543	24	1930	344	1.20	100	14	581	43	2386	544	1.20	100
13	4	651	40	3200	699	1.15	100	7	618	78	3050	1342	1.23	100	11	630	66	3105	1110	1.20	100
14	3	667	93	3250	1560	1.05	100	4	620	82	2950	451	1.30	100	7	640	83	3079	969	1.19	100
15	1	575	-	2150	-	1.13	100	-	-	-	-	-	-	-	1	575	-	2150	-	1.13	100
16	2	700	14	3850	919	1.12	100	5	651	74	3610	568	1.36	100	7	665	65	3679	608	1.29	100
17	6	768	66	5392	1248	1.17	100	3	638	51	2750	853	1.05	100	9	725	87	4511	1703	1.13	100
18	1	825	-	6400	-	1.14	100	2	640	21	3050	636	1.16	100	3	702	108	4167	1986	1.15	100
19	1	705	-	5300	-	1.51	100	1	670	-	3600	-	1.20	100	2	688	25	4450	1202	1.35	100
21	2	753	53	4500	2121	1.02	100	-	-	-	-	-	-	-	2	753	53	4500	2121	1.02	100
TOTAL	50							38							88						
MEAN		633	95	3131	1456	1.16			599	66	2687	888	1.23			618	85	2939	1256	1.19	
MEAN AGE	13.3							13.3							12.9						

Table 150. Biological data by length interval for Arctic charr taken from Ross Inlet (Repulse Bay area), 15-24 October 1987.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH(MM) MEAN	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
350	-	-	-	-	-	-	-	-	-	-	-	-	2	390	650	0	1.10	0
400	2	438	1025	35	1.22	100	-	-	-	-	-	-	6	438	967	61	1.15	33
450	-	-	-	-	-	-	-	-	-	-	-	-	16	481	1344	197	1.20	0
500	6	516	1658	132	1.21	100	10	523	1775	280	1.25	100	73	522	1751	208	1.23	22
550	16	578	2250	217	1.16	100	15	573	2437	476	1.29	100	125	572	2343	283	1.25	25
600	11	617	2677	252	1.14	100	8	624	2756	268	1.13	100	92	620	2853	344	1.20	21
650	7	671	3471	319	1.15	100	10	675	3520	487	1.15	100	72	671	3680	447	1.22	24
700	7	716	4307	699	1.18	100	1	710	3500	-	0.98	100	37	718	4300	578	1.16	22
750	6	777	5308	402	1.13	100	2	758	5050	1061	1.16	100	20	772	5328	503	1.16	40
800	4	814	6300	216	1.17	100	-	-	-	-	-	-	10	815	6070	583	1.12	40
850	-	-	-	-	-	-	-	-	-	-	-	-	2	850	6500	566	1.06	0
TOTAL	59						46						455					
MEAN		638	3203	1446	1.16			604	2721	890	1.21			611	2893	1174	1.21	

Table 151. Fishing results for Arctic charr from Stanwell Fletcher Lake (Resolute area), 15-21 August 1988.

PRODUCTION

Quota	Harvest
6800 kg	310.75 kg.

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
104	127	25	2.74	910.9	2721.9

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male	54	-4.7853	2.9669	2.7512-3.1826	0.97
Female	45	-3.1440	2.3759	1.2745-3.4773	0.55
Total	99	-4.2826	2.7869	2.3756-3.1982	0.81

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
17-22	37	0.33	1.00	0.21	0.79

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.

Table 152. Biological data by age group for Arctic charr taken from Stanwell Fletcher Lake (Resolute area), 15-21 August 1988.

AGE (YR)	MALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	% FEMALE
10	1	3	590	-	2150	-	1.05	-	-	-	-	-	-	-	1	2	590	-	2150	-	1.05	-
13	1	3	525	-	1600	-	1.11	-	-	-	-	-	-	-	1	2	525	-	1600	-	1.11	-
14	1	3	510	-	1600	-	1.21	-	-	-	-	-	-	-	1	2	510	-	1600	-	1.21	-
15	1	3	550	-	2000	-	1.20	1	4	500	-	1500	-	1.20	2	4	525	35	1750	354	1.20	50
16	5	17	572	86	2090	971	1.03	8	30	548	40	1769	404	1.07	13	23	557	60	1892	660	1.05	62
17	4	14	583	57	2263	776	1.11	3	11	603	49	2283	351	1.05	7	13	591	50	2271	585	1.08	43
18	5	17	588	65	2440	1014	1.15	9	33	587	37	2239	366	1.11	14	25	587	46	2311	639	1.12	64
19	4	14	583	67	2263	955	1.09	2	7	588	81	2200	707	1.07	6	11	584	63	2242	805	1.09	33
20	2	7	680	14	3750	495	1.19	1	4	660	-	3000	-	1.04	3	5	673	15	3500	557	1.14	33
21	4	14	668	79	3213	878	1.07	1	4	560	-	2200	-	1.25	5	9	646	84	3010	885	1.10	20
22	1	3	660	-	2800	-	0.97	1	4	650	-	2500	-	0.91	2	4	655	7	2650	212	0.94	50
26	-	-	-	-	-	-	-	1	4	670	-	3450	-	1.15	1	2	670	-	3450	-	1.15	-
TOTAL	29							27							56							
MEAN			597	72	2457	916	1.10			581	52	2156	526	1.09			589	63	2312	762	1.09	48
MEAN AGE	17.7									17.9							17.8					

Table 153. Biological data by length interval for Arctic charr taken from Stanwell Fletcher Lake (Resolute area), 15-21 August 1988.

LENGTH INTERVAL (MM)	MALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	% FEMALE
400	1	2	440	700	-	0.82	-	-	-	-	-	-	1	1	440	700	-	0.82	-
450	1	2	490	1450	-	1.23	1	2	490	1500	-	1.27	2	2	490	1475	35	1.25	50
500	7	13	526	1621	81	1.11	11	24	519	1555	151	1.12	18	18	522	1581	130	1.11	61
550	14	26	564	2050	246	1.14	10	22	575	2110	193	1.11	24	24	568	2075	223	1.13	42
600	10	19	622	2665	303	1.10	14	31	619	2507	308	1.05	24	24	620	2573	309	1.08	58
650	7	13	664	3386	414	1.15	9	20	662	2894	327	1.00	16	16	663	3109	435	1.07	56
700	9	17	711	3939	361	1.10	-	-	-	-	-	-	9	9	711	3939	361	1.10	-
750	5	9	764	4390	317	0.99	-	-	-	-	-	-	5	5	764	4390	317	0.99	-
TOTAL	54						45						99						
MEAN			622	2777	1017	1.11			590	2241	552	1.08			608	2533	876	1.09	45

Table 154. Test fishery results for landlocked Arctic charr from an Unnamed Lake (69-15N,93-17W)(Kekektaktook)(Spence Bay area), 23-26 August 1988.

PRODUCTION

Quota	Harvest
500 kg	163.9 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
155	63 89	70 30	168.25	22.1	23.4

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male	74	-4.6213	2.8409	2.1990-3.4828	0.72
Female	64	-4.1978	2.6777	2.3419-2.3419	0.90
Total	141	-4.5353	2.8062	2.4371-3.1753	0.79

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
15-18	36	0.35	0.99	0.30	0.71

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.

Table 155. Biological data by age group for landlocked Arctic charr taken from Unnamed Lake (69-15N,93-17W)(Kekektatook) (Spence Bay area), 23-26 August 1988.

AGE (YR)	MALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	% FEMALE
8	1	2	410	-	600	-	0.87	1	2	350	-	400	-	0.93	2	2	380	42	500	141	0.90	50
9	7	11	403	18	600	141	0.90	7	13	404	22	600	115	0.90	14	12	404	20	600	124	0.90	50
10	5	8	404	36	640	152	0.95	7	13	412	30	686	168	0.96	13	11	415	37	669	149	0.93	58
11	8	13	447	15	838	130	0.93	7	13	439	16	800	129	0.94	16	13	442	15	813	126	0.93	47
12	3	5	470	11	933	115	0.90	6	12	438	20	850	122	1.01	10	8	447	23	850	143	0.95	67
13	4	6	481	15	1075	50	0.97	6	12	471	41	1000	358	0.93	10	8	475	32	1030	271	0.94	60
14	6	9	487	31	1050	333	0.89	9	17	478	14	911	127	0.83	15	13	482	22	967	232	0.85	60
15	10	16	499	15	1150	118	0.92	2	4	489	30	950	71	0.82	12	10	497	17	1117	134	0.91	17
16	9	14	519	25	1191	413	0.85	4	8	489	28	975	96	0.84	13	11	510	28	1125	356	0.84	31
17	6	9	532	39	1317	264	0.88	-	-	-	-	-	-	-	6	5	532	39	1317	264	0.88	-
18	3	5	512	24	1300	100	0.98	2	4	495	7	900	0	0.74	5	4	505	20	1140	230	0.88	40
20	2	3	525	7	1200	141	0.83	1	2	500	-	900	-	0.72	3	3	517	15	1100	200	0.79	33
TOTAL	64							52							119							
MEAN			477	50	1008	321	0.91			448	41	823	212	0.90			464	48	919	291	0.90	45
MEAN AGE	13.6									12.4							13.0					

Table 156. Biological data by length interval for landlocked Arctic charr taken from Unnamed Lake (69-15N,93-17W)(Kekektatook) (Spence Bay area), 23-26 August 1988.

LENGTH INTERVAL (MM)	MALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	% FEMALE
350	5	7	380	480	84	0.87	4	6	364	450	100	0.92	9	6	373	467	87	0.89	44
400	14	19	425	729	83	0.95	23	36	424	704	93	0.92	39	28	425	710	88	0.93	62
450	28	38	480	1033	254	0.93	25	39	472	908	108	0.87	54	38	476	969	208	0.90	47
500	25	34	521	1288	151	0.91	12	19	512	1175	299	0.86	37	26	518	1251	213	0.89	32
550	2	3	573	1500	283	0.79	-	-	-	-	-	-	2	1	573	1500	283	0.79	-
TOTAL	74						64						141						
MEAN			479	1037	318	0.92			455	856	251	0.89			468	947	301	0.90	46

Table 157. Test fishery results for lake trout from Unnamed Lake (69-15N,93-17W)(Kekektaktook)(Spence Bay area), 23-26 August 1988.

PRODUCTION

Quota	Harvest
Incidental Catch	164.4 kg

CATCH-EFFORT

Total Number Of Fish	Mesh Size (mm)	Net Depth (Meshes)	Hours Set Per 100 (m)	CPE [1]	CPE [2]
94	63 89	70 30	168.25	13.4	23.5

LENGTH-WEIGHT RELATIONSHIP $\log_{10}W = a + b (\log_{10}L)$

Sex	N	Y-Intercept (a)	Slope (b)	95% C.I. of b	r
Male	56	-5.0595	3.0406	2.7601-3.3211	0.95
Female	31	-4.8221	2.9634	2.5209-3.4059	0.93
Total	87	-5.1125	3.0638	2.8315-3.2961	0.94

MORTALITY

Age-Classes Used	N	Instantaneous Total Mortality (Z) (Catch Curve)	r	Annual Mortality (A)	Annual Survival (S)
13-18	41	0.40	0.96	0.33	0.67

[1] CPE = No. fish/100 m/24 h.
[2] CPE = kg rd wt/100 m/24 h.

Table 158. Biological data by age group for lake trout taken from Unnamed Lake (69-15N,93-17W)(Kekektatook)(Spence Bay area), 23-26 August 1988.

AGE (YR)	MALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	% FEMALE
8	1	3	365	-	500	-	1.03	-	-	-	-	-	-	-	1	2	365	-	500	-	1.03	-
11	2	5	450	14	1100	141	1.20	-	-	-	-	-	-	-	2	3	450	14	1100	141	1.20	-
12	10	25	448	20	1030	183	1.14	1	5	453	-	1100	-	1.18	11	18	448	19	1036	175	1.14	9
13	3	8	463	8	1067	115	1.07	1	5	478	-	1300	-	1.19	4	6	467	10	1125	150	1.10	25
14	18	45	478	23	1261	238	1.15	8	36	502	29	1538	277	1.20	26	42	486	27	1346	277	1.16	31
15	3	8	490	30	1433	252	1.21	3	14	503	32	1433	153	1.13	6	10	497	29	1433	186	1.17	50
16	-	-	-	-	-	-	-	2	9	503	39	1600	424	1.24	2	3	503	39	1600	424	1.24	-
17	-	-	-	-	-	-	-	2	9	514	20	1650	212	1.21	2	3	514	20	1650	212	1.21	-
18	-	-	-	-	-	-	-	1	5	520	-	1400	-	1.00	1	2	520	-	1400	-	1.00	-
19	-	-	-	-	-	-	-	1	5	588	-	2700	-	1.33	1	2	588	-	2700	-	1.33	-
20	-	-	-	-	-	-	-	1	5	550	-	2600	-	1.56	1	2	550	-	2600	-	1.56	-
22	1	3	710	-	4500	-	1.26	-	-	-	-	-	-	-	1	2	710	-	4500	-	1.26	-
23	1	3	825	-	7900	-	1.41	1	5	513	-	1800	-	1.33	2	3	669	221	4850	4313	1.37	50
24	1	3	554	-	1600	-	0.94	-	-	-	-	-	-	-	1	2	554	-	1600	-	0.94	-
45	-	-	-	-	-	-	-	1	5	1005	-	12500	-	1.23	1	2	1005	-	12500	-	1.23	-
TOTAL	40							22							62							
MEAN			482	75	1430	1202	1.15			530	111	2114	2356	1.22			499	91	1673	1716	1.17	35
MEAN AGE	13.9									17.0							15.0					

Table 159. Biological data by length interval for lake trout taken from Unnamed Lake (69-15N,93-17W)(Kekektatook)(Spence Bay area), 23-26 August 1988.

LENGTH INTERVAL (MM)	MALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	% FEMALE
350	1	2	365	500	-	1.03	-	-	-	-	-	-	1	1	365	500	-	1.03	-
425	9	16	437	956	73	1.15	-	-	-	-	-	-	9	10	437	956	73	1.15	-
450	15	27	461	1107	96	1.13	3	10	464	1167	115	1.17	18	21	462	1117	99	1.14	17
475	10	18	481	1260	165	1.13	7	23	480	1443	305	1.30	17	20	481	1335	242	1.20	41
500	6	11	509	1633	234	1.24	9	29	512	1511	276	1.13	15	17	511	1560	259	1.17	60
525	7	13	536	1614	297	1.05	5	16	533	1880	192	1.24	12	14	535	1725	283	1.13	42
550	3	5	561	1900	361	1.08	2	6	550	2250	495	1.35	5	6	556	2040	404	1.19	40
575	2	4	580	2050	71	1.05	2	6	584	2500	283	1.25	4	5	582	2275	310	1.15	50
600	-	-	-	-	-	-	1	3	600	2600	-	1.20	1	1	600	2600	-	1.20	-
625	1	2	625	2300	-	0.94	-	-	-	-	-	-	1	1	625	2300	-	0.94	-
650	-	-	-	-	-	-	1	3	660	2900	-	1.01	1	1	660	2900	-	1.01	-
700	1	2	710	4500	-	1.26	-	-	-	-	-	-	1	1	710	4500	-	1.26	-
825	1	2	825	7900	-	1.41	-	-	-	-	-	-	1	1	825	7900	-	1.41	-
1000	-	-	-	-	-	-	1	3	1005	12500	-	1.23	1	1	1005	12500	-	1.23	-
TOTAL	56						31						87						
MEAN			497	1498	1044	1.13			534	2068	2000	1.21			510	1701	1472	1.16	36